

JUN 3 1963

CRPL-F225 PART A

FOR OFFICIAL USE

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PART A  
IONOSPHERIC DATA

ISSUED  
MAY 1963

U. S. DEPARTMENT OF COMMERCE  
NATIONAL BUREAU OF STANDARDS  
CENTRAL RADIO PROPAGATION LABORATORY  
BOULDER, COLORADO



IONOSPHERIC DATA

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## IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and distribution of ionospheric and related geophysical data. Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," of the CRPL-F series present a variety of data in convenient form for use in research in radio propagation and the ionosphere and in other geophysical problems.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into the median determination (count) for all ionospheric characteristics listed. Also, when available, the upper and lower quartile values indicated by UQ and LQ in the tables, are listed for  $f_oF_2$ ,  $h'F_2$ ,  $h'F$ , and  $M(3000)F_2$ . Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods.

Beginning with CRPL-F221, Part A, "Ionospheric Data," the hourly median values for the graphs of critical frequencies and  $M(3000)F_2$  were plotted by machine methods instead of manually, as in earlier issues. Graphs of critical frequencies and  $M(3000)F_2$  will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are available from the CRPL and the IGY World Data Center for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with the original data. The tables and graphs now show the ionospheric data as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data rests entirely with the originator.

Medians of data for the U.S. stations are computed in accordance with the recommendations of the World-Wide Soundings Committee. Data will appear in the F series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevier, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1962, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	10	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	49
1962	45	42	40	39	39	38	36	34	32	31		

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle  
 foF1, foE - - - Hundredths of a megacycle  
 h'F2, h'F, h'E - Kilometers  
 (M3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median  
 CNT - Count  
 UQ - Upper Quartile  
 LQ - Lower Quartile

## WORLD-WIDE SOURCES OF IONOSPHERIC DATA

THE IONOSPHERIC DATA GIVEN IN TABLES 1 TO 100 AND FIGURES 1 TO 100 WERE ASSEMBLED BY THE CENTRAL RADIO PROPAGATION LABORATORY FOR ANALYSIS, CORRELATION AND DISTRIBUTION. THE FOLLOWING ARE THE SOURCES OF THE DATA IN THIS ISSUE:

REPUBLICA ARGENTINA, MINISTERIO DE MARINA.

BUENOS AIRES, ARGENTINA

TRELEW, ARGENTINA

COMMONWEALTH OF AUSTRALIA, IONOSPHERIC PREDICTION SERVICE OF THE COMMONWEALTH OBSERVATORY.

BRISBANE, AUSTRALIA

CANBERRA, AUSTRALIA

AUSTRALIAN DEPARTMENT OF NATIONAL DEVELOPMENT, BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS.

MUNDARING, WESTERN AUSTRALIA

UNIVERSITY OF GRAZ.

GRAZ, AUSTRIA

BELGIAN ROYAL METEOROLOGICAL INSTITUTE.

DOURBES, BELGIUM

BRITISH DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RADIO RESEARCH BOARD.

FALKLAND IS.

IBADAN, NIGERIA (UNIVERSITY COLLEGE OF IBADAN)

PORT LOCKROY, ANTARCTICA

SINGAPORE, BRITISH MALAYA

SLOUGH, ENGLAND

RADIO WAVE RESEARCH LABORATORIES, NATIONAL TAIWAN UNIVERSITY, TAIPEH, FORMOSA, CHINA.

FORMOSA, CHINA

CENTRAL AFRICAN INSTITUTE FOR SCIENTIFIC RESEARCH.

LWIRO, CONGO

METEOROLOGICAL SERVICE OF CONGO.

LEOPOLDVILLE, CONGO

DANISH NATIONAL COMMITTEE OF URSI.

GODHAVN, GREENLAND

NARSSARSSUAQ, GREENLAND

IONOSPHERIC RESEARCH GROUP (GRI), FRANCE.

DAKAR, SENEGAL

DJIBOUTI, FRENCH SOMALILAND

PARIS, FRANCE

TAHITI, SOCIETY IS.

TANANARIVE, MALAGASY REPUBLIC

INSTITUTE FOR IONOSPHERIC RESEARCH, LINDAU UBER NORTHEIM,  
HANNOVER, GERMANY.

LINDAU/HARZ, GERMANY

IONOSPHERE INSTITUTE, NATIONAL OBSERVATORY OF ATHENS.

ATHENS (SCARAMANGA), GREECE

INDIAN COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH,  
RADIO RESEARCH COMMITTEE, NEW DELHI, INDIA.

AHMEDABAD, INDIA (PHYSICAL RESEARCH LABORATORY)

GEOPHYSICAL AND GEODETIC INSTITUTE, GENOA, ITALY.

GENOA (MONTE CAPELLINO), ITALY

MINISTRY OF POSTS AND TELECOMMUNICATIONS, RADIO RESEARCH  
LABORATORIES, TOKYO, JAPAN.

SYOWA BASE, ANTARCTICA

THE ROYAL NETHERLANDS METEOROLOGICAL INSTITUTE.

DE BILT, NETHERLANDS

INSTITUTE OF TELECOMMUNICATION, WARSAW, POLAND.

WARSAW, POLAND

ROYAL BOARD OF SWEDISH TELEGRAPHS, RADIO DEPARTMENT,  
STOCKHOLM, SWEDEN.

LULEA, SWEDEN

UNITED STATES ARMY SIGNAL CORPS., UNITED STATES OF AMERICA.

FT. MONMOUTH, NEW JERSEY

THULE, GREENLAND

NATIONAL BUREAU OF STANDARDS, UNITED STATES OF AMERICA.  
(CENTRAL RADIO PROPAGATION LABORATORY).

HUANCAYO, PERU (INSTITUTO GEOFISICO DEL PERU)

MAUI, HAWAII

POLE STATION, ANTARCTICA

TALARA, PERU (INSTITUTO GEOFISICO DEL PERU)





# TABLES OF IONOSPHERIC DATA

Time 1962 - January, 1962

TABLE 2

FT. MONMOUTH, NEW JERSEY

1400-01N, 74-11W

TIME 75-00

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f <sub>o</sub> F <sub>2</sub>	MEG	445	40	37	35	32	39	47	54	59	58	60	60	62	625	635	63	64	68	725	69	595	53	47	
	CNT	24	24	25	25	26	29	29	29	31	31	31	31	28	30	30	29	29	29	30	29	26	27	29	
	UO	46	44	40	38	35	45	52	60	63	63	64	65	64	58	50	50	58	50	58	52	60	50	44	30
	U	37	34	29	26	26	33	42	44	50	51	53	54	54	50	51	53	54	50	58	52	60	50	44	30
h'F <sub>2</sub>	MEG	292	300	305	301	3205	350	405	377	480	435	390	401	4425	405	370	374	360	345	3325	318	309	300	297	263
	CNT	310	343	360	350	410	430	410	430	475	500	408	430	498	395	392	335	326	325	310	280	275	280	250	
	UO	271	260	292	285	302	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	
	U	271	260	292	285	302	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	
h'F <sub>1</sub>	MEG	280	285	285	289	2825	248	225	215	2075	200	192	190	190	200	200	200	200	200	200	200	200	200	200	
	CNT	29	29	29	28	28	29	29	29	29	28	29	29	29	29	29	29	29	29	29	29	29	29	29	
	UO	265	264	270	262	256	238	216	208	203	190	182	180	180	180	180	180	180	180	180	180	180	180	180	
	U	265	264	270	262	256	238	216	208	203	190	182	180	180	180	180	180	180	180	180	180	180	180	180	
M3000HF	MEG	290	2925	295	300	3075	3275	330	325	315	315	305	300	310	310	310	310	310	310	310	310	310	310	310	
	CNT	23	24	23	24	24	28	27	28	27	28	29	29	29	29	29	29	29	29	29	29	29	29	29	
	UO	285	280	280	285	300	310	310	315	310	300	285	290	285	285	285	285	285	285	285	285	285	285	285	
	U	285	280	280	285	300	310	310	315	310	300	285	290	285	285	285	285	285	285	285	285	285	285	285	
f <sub>o</sub> F <sub>1</sub>	MEG						350	400	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	
	CNT						1	5	12	26	26	29	30	30	30	30	30	30	30	30	30	30	30	30	
	UO																								
	U																								
f <sub>o</sub> E	MEG						2	230	2625	2925	310	3	360	6	6	6	6	6	6	6	6	6	6	6	
	CNT																								
	UO																								
	U																								
h'E	MEG						1300	110	1075	105	105	105	103	103	103	103	103	103	103	103	103	103	103	103	
	CNT						5	28	30	31	30	31	31	31	31	31	31	31	31	31	31	31	31	31	
	UO																								
	U																								
f <sub>o</sub> E <sub>s</sub>	MEG						30	24	315	35	355	37	365	365	365	365	365	365	365	365	365	365	365	365	
	CNT						30	30	29	30	31	30	31	30	31	30	31	30	31	30	31	30	31	30	
	UO																								
	U																								

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS

MAY, 1962

TABLE 4

TALARA, PERU

14-05S, 81-30W

TIME 75-00

HOUR	00	01	02	03	04	05	06	07	08	09	10	11		
f <sub>o</sub> F <sub>2</sub>	MEG	825	65	61	54	43	36	35	605	825	925	955	99	
	CNT	22	21	23	21	24	23	20	28	28	28	28	29	
	UO	75	57	54	50	36	30	28	58	78	86	92	96	
	U	75	57	54	50	36	30	28	58	78	86	92	96	
h'F <sub>2</sub>	MEG	200	2125	230	230	230	240	250	240	230	215	210	200	
	CNT	30	30	29	29	29	27	24	28	28	27	28	25	
	UO	200	210	230	230	230	230	240	240	230	210	205	200	
	U	200	210	230	230	230	230	240	240	230	210	205	200	
M3000F2	MEG	3375	310	320	330	330	315	300	320	2975	265	235	230	
	CNT	22	21	23	21	23	21	20	27	28	28	28	29	
	UO	325	300	310	320	305	304	280	305	290	255	230	230	
	U	325	300	310	320	305	304	280	305	290	255	230	230	
f <sub>o</sub> F <sub>1</sub>	MEG												1	4
	CNT													
f <sub>o</sub> E	MEG									210	280	325	3475	360
	CNT									22	25	25	22	23
h'E	MEG									122	117	115	100	100
	CNT									22	28	28	28	29
f <sub>o</sub> E <sub>s</sub>	MEG	30	30	29	28	16	21	20	21*	104	35	38		
	CNT						20	20	28	28	360	28	29	

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS

MAY, 1962

TABLE 1

THULE, GREENLAND

17-00N, 68-00W

TIME 75-00

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f <sub>o</sub> F <sub>2</sub>	MEQ	475	465	44	U	44	46	43	45	44	46	45	47	46	45	47	46	45	47	46	45	47	46	45	47
	CNT	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	UO	50	49	50	50	50	49	48	52	50	51	48	52	50	51	48	52	50	51	48	52	50	51	48	52
	U	44	43	41	42	42	39	41	39	40	42	43	44	44	43	46	46	46	46	46	43	46	42	45	44
h'F <sub>2</sub>	MEQ	292	300	305	301	3205	350	405	377	480	435	390	401	4425	405	370	374	360	345	3325	318	309	300	297	263
	CNT	310	343	360	350	410	430	410	430	475	500	408	430	498	395	392	335	326	325	310	280	275	280	250	263
	UO	271	260	292	285	302	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
	U	271	260	292	285	302	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
h'F <sub>1</sub>	MEQ	215	220	219	2094	201	150	2035	100	209	210	204	200	205	204	200	210	207	210	212	2185	219	220	220	2134
	CNT	223	220	219	209	201	150	2035	1																
	UO	273	230	277	220	216	208	210	200	210	190	200	210	190	190	210	210	190	190	210	210	190	190	210	210
	U	273	230	277	220	216	208	210	200	210	190	200	210	190	190	210	210	190	190	210	210	190	190	210	210
MINOFF2F	MEQ	305	310	300	3074	290	285	280	280	270	270	275	280	275	280	275	280	275	280	275	280	275	280	275	280
	CNT	26	23	25	24	22	24	22	18	22	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18
	UO	315	330	330	325	310	310	315	305	310	290	295	295	295	295	295	295	295	295	295	295	295	295	295	295
	U	315	290	285	290	285	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
f <sub>o</sub> F <sub>1</sub>	MEQ	1	3	4	10	350	360	370	370	390	400	400	410	400	400	400	410	400	400	400	400	400	400	400	400
	CNT																								
	UO																								
	U																								
f <sub>o</sub> E	MEQ	200	210	220	2225	230	250	260	270	280	290	290	300	300	300	300	300	300	300	300	300	300	300	300	300
	CNT	27	28	29	28	27	27	23	26	19	14	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	UO	108	105	102	101	100	100	100	98	98	98	97	98	98	97	98	98	97	98	98	97	98	98	97	98
	U	108	105	102	101	100	100	100	98	98	98	97	98	98	97	98	98	97	98	98	97	98	98	97	98
h'E	MEQ	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	UO	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	U	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f <sub>o</sub> E <sub>s</sub>	MEQ	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	UO	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	U	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30



TABLE 10

[illegible]

TABLE 12

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC.

OCTOBER • 1961 W

TABLE 9

[illegible]

TABLE 11

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC.

NOVEMBER, 1961

TABLE 14

[illegible]

SEPTEMBER, 1961

TABLE 16

[illegible]

AUGUST, 1961

TABLE 13

hour	THULE	GREENLAND	176-0N	68-0E	Time 75-0															
f6 F2	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f2 F2	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f2 F2	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f2 F2	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f2 F2	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18	10	24	24	25	22	24	23	20	16	10	5
	UO	47	47	45	49	47	48	51	50	52	53	54	56	54	54	55	54	52	50	34
	LO	37	43	31	33	34	34	35	42	43	44	45	45	44	46	48	47	42	39	28
f6 F1	MED	U	U	U	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	24	6	14	15	15	25	25	26	18											

SEPTEMBER, 1961

TABLE 15

		GENOA (MONTE CAPELLINO), ITALY																		9.4OE1					
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT UO LO	55 29	52 28	49 28	46 29	46 29	52 28	58 31	68 28	67 30	68 30	70 29	71 30	72 30	72 31	72 31	75 30	75 31	76 28	76 30	76 31	76 31	76 31	76 31	76 31
16 F2	MED CNT UO LO																								
16 F	MED CNT UO LO	200 29	200 28	200 27	276 27	270 27	240 25	225 26	220 25	220 25	215 24	215 24	210 23	210 21	210 24	230 26	230 27	230 26	225 26	240 27	250 26	250 28	240 29	245 30	265 29
M30001F2	MED CNT UO LO																								
16 F1	MED CNT UO LO																								
16 E	MED CNT UO LO						180 29	240 31	260 30	260 29	335 29	340 28	340 26	350 24	340 24	330 23	330 24	250 26	240 26						
16 E	MED CNT UO LO																								
16 E	MED CNT UO LO																								
16 E	MED CNT UO LO																								
16 E	MED CNT UO LO																								
16 E	MED CNT UO LO	30 29	19 29	20 29	20 29	25 29	26 29	32 31	40 31	42 31	46 30	46 30	49 31	44 31	40 31	36 30	38 30	36 30	28 31	28 31	30 31	27 31	38 31	26 31	29 30

AUGUST • 1961

TABLE 17

GENOA MONTE CARLINO, ITALY  
(46.6N, 9.0E)

Hour	Season																								
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
h <sub>0</sub> F2	MEQ	54	52	53	47	47	51	54	66	65	65	69	68	68	67	68	69	68	70	68	74	71	68	64	59
	CNT	30	29	30	29	30	30	29	28	26	25	27	25	29	30	29	29	28	29	25	26	30	29	31	29
	UO																								
	LC																								
h <sub>1</sub> F2	MEQ																								
	CNT																								
	UO																								
	LC																								
h <sub>1</sub> F	MEQ	313	310	300	300	285	250	340	225	225	225	220	220	225	225	220	230	230	240	255	270	270	380	290	320
	CNT	26	26	30	28	27	27	20	17	14	14	17	19	18	20	19	21	15	12	13	24	25	25	25	26
	UO																								
	LC																								
h <sub>1</sub> 3000F2	MEQ																								
	CNT																								
	UO																								
	LC																								
h <sub>0</sub> F1	MEQ																								
	CNT																								
	UO																								
	LC																								
h <sub>0</sub> E	MEQ						200	260	290	320	330	340	340	340	340	330	320	290	260	210					
	CNT						18	31	31	31	30	28	26	28	27	30	28	29	31	19					
	UO																								
	LC																								
h <sub>1</sub> E	MEQ																								
	CNT																								
	UO																								
	LC																								
h <sub>0</sub> E4	MEQ	23	22	21	23	20	25	33	40	46	46	46	42	42	44	36	37	42	35	38	28	34	37	29	29
	CNT	31	31	31	31	31	30	31	31	31	31	30	29	29	31	31	31	30	31	31	31	31	31	31	31
	UO																								
	LC																								

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC.

JULY • 1961

THEN S. GOODES  
138-ON- 23-451

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 30 SECONDS.

JULY • 1961

TABLE 19

CENOA MONTE CADEI (MO) + ITALY 1966-69: 0.05

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC.

JUNE 4 1961

TABLE 20

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES\* AUTOMATIC\*

MAY. 1961 5



TABLE 22

GENOA (MONTE CAPELLINO) ITALY 144+8N, 9+0E1

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	42	42	42	40	38	34	54	63	72	79	86	85	87	89	88	84	84	84	73	65	58	48	46	43
ME0	30	30	30	29	26	25	28	29	28	29	28	29	28	29	30	29	28	27	20	29	29	30	30	30
CNT																								
16F2																								
ME0																								
CNT																								
16F	310	305	305	290	275	260	240	225	225	230	220	220	220	220	225	230	235	240	235	240	255	265	280	300
ME0	30	30	30	30	29	28	29	29	28	29	29	30	29	29	29	29	29	29	28	30	30	30	30	30
CNT																								
16F1																								
ME0																								
CNT																								
16E																								
ME0																								
CNT																								
16E																								
ME0																								
CNT																								

SWEEP 1+0 MC TO 20+0 MC IN 5 MINUTES, AUTOMATIC.

MARCH, 1961

TABLE 21

GENOA (MONTE CAPELLINO) ITALY 144+8N, 9+0E1

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	59	48	46	42	39	45	53	61	67	70	73	76	79	79	81	79	80	79	78	73	62	54	52	51
ME0	29	27	28	27	29	29	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	28	30	29
CNT																								
16F	320	315	305	280	280	265	255	240	225	225	220	220	225	230	230	240	250	265	260	255	265	275	310	325
ME0	29	29	30	29	30	30	30	30	30	30	29	30	30	28	28	28	28	29	30	30	29	30	30	30
CNT																								
16F1																								
ME0																								
CNT																								
16E																								
ME0																								
CNT																								

SWEEP 1+0 MC TO 20+0 MC IN 5 MINUTES, AUTOMATIC.

APRIL, 1961

TABLE 24

GENOA (MONTE CAPELLINO) ITALY 144+8N, 17+0E1

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	124	136	130	88	64	44	36	65	91	109	120	132	130	124	122	124	130	127	127	130	133	0	130	130
ME0	16	16	13	14	16	22	21	27	28	28	28	28	28	23	24	23	26	27	26	25	14	9	9	13
CNT																								
16F2																								
ME0																								
CNT																								
16F	230	228	222	210	205	225	230	240	225	210	200	195	190	190	195	205	225	235	250	288	260	230	230	245
ME0	28	28	28	28	27	25	23	28	27	27	26	26	25	25	24	23	24	26	27	26	24	25	25	27
CNT																								
16F1																								
ME0																								
CNT																								
16E																								
ME0																								
CNT																								

SWEEP 1+2 MC TO 17+0 MC.

FEBRUARY, 1961

TABLE 23

GENOA (MONTE CAPELLINO) ITALY 144+8N, 9+0E1

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	40	40	40	38	38	33	39	60	78	80	82	86	85	85	83	84	76	65	58	52	46	44	41	41
ME0	26	25	23	25	25	27	26	26	27	27	27	27	27	27	27	27	27	26	27	27	26	26	26	26
CNT																								
16F2																								
ME0																								
CNT																								
16F	275	270	275	275	255	245	235	220	220	220	210	210	210	215	215	220	220	220	225	235	240	255	265	265
ME0	28	28	28	28	28	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28
CNT																								
16F1																								
ME0																								
CNT																								
16E																								
ME0																								
CNT																								

SWEEP 1+0 MC TO 20+0 MC IN 5 MINUTES, AUTOMATIC.

FEBRUARY, 1961

TABLE 26

		GENA (MONTE CAPELLINO) • ITALY																			144.48N		9.0E		TIME 0-0											
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23											
16F2	MED CMT LQ	37 26	41 28	39 27	40 27	39 26	35 28	30 28	36 31	80 31	90 31	90 31	97 92	86 51	90 51	84 51	80 51	75 51	64 51	52 51	43 51	35 29	36 29	38 27	38											
16F2																																				
16F	MED CMT LQ	260 31	275 31	270 31	280 31	245 30	240 30	225 29	220 31	220 31	225 31	220 31	220 31	210 31	215 31	225 31	225 31	220 31	220 31	220 31	230 31	240 30	250 31	265 31	255											
M13000IF2	MED CMT LQ																																			
16F1	MED CMT																																			
16E	MED CMT																																			
16E	MED CMT																																			
16E	MED CMT																																			
16Ea	MED CMT	31	31	31	31	30	30	30	31	30	300	29	27	28	28	28	28	31	31	31	31	31	31	31	31											

SHEEP 1-0 MC TO 20-0 MC IN 5 MINUTES, AUTOMATIC.

JANUARY, 1961

TABLE 25

		PARIS, FRANCE																				TIME 15-0E			
		(48.84N, 2.3E)																							
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	31	34	32	32	32	30	29	26	31	57	75	82	90	84	88	80	79	70	57	48	40	36	31	32
	CNT	16	14	12	10	10	14	16	19	17	24	15	22	19	24	26	25	24	24	24	21	20	19	15	18
16F2	MED																								
	CNT																								
16F	MED	280	278	295	300	295	270	255	250	242	225	228	230	225	220	230	230	230	215	215	230	230	250	260	275
	CNT	20	19	21	24	25	22	19	18	22	27	28	31	31	29	29	31	31	31	30	28	26	23	22	23
M13000IF2	MED	285	280	270	280	292	290	295	310	300	335	335	335	340	335	330	330	330	330	320	320	320	315	298	288
	CNT	13	13	9	12	12	11	11	11	12	23	14	21	18	21	24	23	18	22	17	17	19	13	14	12
16F1	MED																								
	CNT																								
16E	MED																								
	CNT																								
16E	MED																								
	CNT																								
16E	MED	27	22	15	13	10	9	7	4	5	120	12	15	20	17	17	17	16	18	18	18	18	18	18	18
	CNT	8	6	15	13	10	9	7	4	5	120	12	15	20	17	17	17	16	18	18	18	18	18	18	18

SHEEP 1-4 MC TO 17-0 MC.

JANUARY, 1961

TABLE 27

		114.48N, 17.44W																				TIME 15-				
		Dakar, SENEGAL																								
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
16F2	MED	114	114	107	60	40	35	28	63	98	123	129	120	124	127	120	120	124	126	124	126	126	126	136	126	112
	CMT	16	17	15	17	10	10	21	20	20	20	28	27	30	30	29	29	29	28	23	23	12	15	13	9	
16F2	MED									U	240	260	265	300	285	270	285	U								
	CMT									2	19	20	10	9	9	9	5	1								
16F	MED	245	228	210	200	215	240	245	250	230	215	202	195	195	200	200	220	225	240	250	290	260	245	235	235	
	CMT	30	30	29	27	27	24	22	20	29	25	28	27	30	28	27	28	29	29	28	28	29	27	20	28	
M13000IF2	MED	320	330	352	340	310	290	300	322	330	335	330	302	278	282	290	295	298	295	290	270	285	300	308	302	
	CMT	12	10	12	9	12	11	19	26	27	27	26	24	28	28	28	28	24	25	21	19	9	7	8	30	
16F1	MED									U	U	U	U	U	U	U	U									
	CMT									500	6	4	6	6	3	5	1									
16E	MED	E	L	E	E	E	E	E	180	260	302	320	350	355	358	350	335	300	235	140	E	E	E	E	E	
	CMT	9	11	12	10	13	12	11	15	29	28	27	25	27	26	27	25	25	20	2	14	4	3	5	4	
16E	MED									105	100	100	100	100	100	100	100	105	105	E	E	E	E	E	E	
	CMT	9	11	12	10	13	12	11	16	22	22	22	22	21	18	12	12	23	20	3	14	4	3	5	4	
16Ea	MED	26	26	26	26	26	26	26	26	40	42	45	42	42	41	38	37	45	43	32	31	31	31	31	28	
	CMT	29	30	29	30	29	28	26	20	29	28	29	28	30	29	29	29	29	29	29	29	28	27	26	26	

SHEEP 1-2 MC TO 17-0 MC.

JANUARY, 1961

TABLE 28

		1848AM, NIGERIA																				0-0		TIME	
		1 7-4N, 3.49E1																							
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	84	68	67	63	48	46	48	79	89	92	90	92	97	98	102	107	101	101	93	89	91	86	84	86
	CNT	29	29	29	29	29	29	29	29	30	27	30	30	30	30	31	30	30	29	31	31	31	29	30	30
16F2	LQ																								
16F	MED	245	245	250	250	230	225	255	240	220	210	200	200	200	200	205	215	225	250	300	350	310	265	250	240
	CNT	29	29	29	29	29	27	29	29	29	26	26	30	28	27	28	26	27	28	31	31	31	29	30	29
M13000IF2	MED	305	300	305	325	335	310	285	310	290	260	245	250	250	250	255	255	255	225	230	245	275	285	290	
	CNT	18	12	8	5	9	10	16	27	29	27	30	30	30	30	31	30	29	15	19	19	12	13	10	13
16F1	LQ																								
16E	MED																								
	CNT																								
16E	MED																								
	CNT																								
16Ea	MED																								
	CNT																								

SHEEP

JANUARY, 1961





TABLE 33

1.51-5N, 0-6M

TABLE 39

[illegible]

TABLE 37

SINGAPORE, BRITISH MALAYA ( 1-3PM, 103.8E)																									TIME 105.0			
	HOURL	100	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
f62	MED	85	77	70	59	57	52	61	86	92	95	100	107		114	113	115	116	116	115	112	114	111	112	102	92		
	CNT	29	29	30	29	29	20	30	30	30	30	30	28		29	29	29	30	29	25	27	28	29	16	20	27		
	LO																											
h'f2	MED																											
	CNT																											
	LO																											
h'f	MED																											
	CNT																											
	LO																											
MIS000f2	MED	280	275	280	280	295	310	310	305	275	240	215	205	220	220	220	220	230	235	230	230	235	270	280	275			
	CNT	29	29	30	29	29	28	29	30	29	29	28	29	29	29	29	30	29	25	27	28	29	26	28	27			
	LO																											
f6f1	MED																											
	CNT																											
	LO																											
f6E	MED	120	110	105	120			130	260	310	350	375	390		390	380	370	345	310	240								
	CNT	1	2	3	2			10	23	24	21	17	19		13	12	20	18	17	14								
	LO																											
h'E	MED																											
	CNT																											
	LO																											
f6A	G	E	E	E	E	E	G	E	E	E	E	E																
	MED	20	18	18	16	12	17	26	31	30	300	29	30	29	30	31	30	31	30	30	30	31	32	36	30	32		
	CNT	20	18	18	16	12	17	26	31	30	300	29	30	29	30	31	30	31	30	30	29	28	21	13	11	15		

TABLE 40

[illegible]

TABLE 39

[illegible]

SUGGEST 1-0 MC TO 25-0 MC IN 27 SECONDS.

Received 10 June 2003



TABLE 4C

[illegible]

TABLE 48

[illegible]TABLE 6<sup>a</sup>[illegible]

TABLE 47

[illegible]

BUENOS AIRES, ARGENTINA  
(34.55, 58.54)

TABLE 54

PORT STATION: ANTARCTICA																								1900-051				TIME 0-0			
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23						
16F2	MED	585	62	56	60	65	615	585	54																						
	CNT	18	17	18	18	12	18	18	17	11	12	13	17	20	21	17	18	19	15	16	15	16	15	16	15						
	LO	54	54	50	52	56	50	50	50	39	45	39	46	46	48	51	56	58	53	52	53	52	53	54	56						
16F2	MED	380	380	365	395	3625	410	405	4275	4425	395	590	550	490	5125	460	315	375	365	395	375	3925	335	335	350						
	CNT	14	11	14	14	18	17	18	14	16	9	7	8	9	6	11	10	11	14	13	18	10	360	10	400						
	LO	415	430	480	450	410	445	440	445	340	380	370	375	405	365	435	415	300	340	340	335	360	350	310	310						
16F	MED	2425	235	240	250	245	240	235	2325	240	2575	260	255	280	240	240	260	250	250	250	245	245	240	2375	240						
	CNT	18	21	20	21	19	49	21	18	18	17	12	13	15	19	20	19	21	20	23	18	19	21	22	22						
	LO	260	250	250	255	260	260	250	240	240	245	280	295	300	300	275	275	265	265	265	265	260	250	250	265						
M3000IF2	MED	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380							
	CNT	13	12	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15							
	LO	295	300	280	290	275	275	270	285	265	280	270	285	300	290	295	300	290	300	295	280	315	315	300							
16FI	MED	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
	CNT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
	LO	430	390	400	395	390	380	385	400	385	350	4	5	5	5	5	5	5	5	5	5	4	400	5	2						
16E	MED	260	255	250	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	265	265	260	255	250						
	CNT	12	13	11	15	13	34	15	17	12	8	6	4	9	14	13	13	13	13	13	13	13	13	10							
	LO	106	105	106	106	106	109	105	105	107	108	107	107	105	104	105	105	107	103	107	106	107	107	105	105						
16Ea	MED	30	26	285	285	21	19	42	295	29	33	33	32	31	38	22	23	22	22	23	28	29	25	36							
	CNT	22	21	22	22	21	19	42	295	29	33	33	32	31	38	22	23	22	22	23	28	29	25	36							
	LO																														

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 53

PORT LOCROCY+ ANTARCTICA		1600-051																TIME 00-00							
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	32	36	94	90	87	78	88	87	86	81	78	72	72	74	71	70	67	67	66	73	77	82	84	90
	CNT	28	28	24	24	27	28	26	25	21	27	27	24	22	23	23	26	15	10	17	22	25	24	24	19
	UO																								
	LO																								
16F2	MED																								
	CNT																								
	UO																								
	LO																								
16F	MED	300	300	300	305	320	300	270	260	250	250	240	240	235	230	240	235	245	240	250	240	250	260	270	280
	CNT	30	27	27	27	28	28	28	27	20	19	18	14	18	17	17	22	10	12	16	21	24	25	27	29
	UO																								
	LO																								
M3000IF2	MED	260	255	250	245	250	240	250	255	260	260	275	275	285	285	250	290	300	295	290	300	285	275	265	260
	CNT	23	19	20	21	22	25	23	25	18	27	25	23	22	22	22	24	12	15	16	18	21	18	21	16
	UO																								
	LO																								
16FI	MED																								
	CNT																								
	UO																								
	LO																								
16E	MED	150	140	105	130	120	165	200	235	270	300	240	320	325	350	340	340	340	310	305	285	260	235	200	170
	CNT	7	5	5	9	12	19	19	14	9	12	5	8	4	5	8	10	1	1	3	11	12	13	13	13
	UO																								
	LO																								
16E	MED																								
	CNT																								
	UO																								
	LO																								
16Ea	MED	15	14	10	13	12	16	20	24	27	32	33	36	37	36	34	34	35	31	30	28	26	24	20	17
	CNT	30	30	29	29	29	29	29	29	29	290	29	28	27	28	28	28	25	26	28	28	30	29	30	29
	UO																								
	LO																								

SWEEP

NOVEMBER, 1960

TABLE 55

WARSAW, POLAND		152-2N, 21-2E																TIME 15-00							
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	41	38	38	34	28	27	21	23	20	83	94	107	103	102	124	100	97	96	92	92	92	92	92	91
	CNT	40	38	38	34	28	27	21	23	20	83	94	107	103	102	124	100	97	96	92	92	92	92	91	
	U	46	46	43	42	40	35	48	74	90	102	110	114	117	114	113	109	100	93	82	70	58	50	48	
	LO	34	31	30	27	20	23	34	49	57	61	71	85	80	84	84	83	78	70	60	50	40	36	34	34
16F2	MED									1								1							
	CNT																								
	U																								
	LO																								
16F	MED	335	320	300	300	270	270	270	245	235	225	230	225	225	230	240	240	235	230	230	250	270	290	310	310
	CNT	352	340	340	340	340	350	300	255	240	260	230	235	235	260	265	245	240	250	250	290	300	350	365	
	U	305	300	290	290	260	250	245	235	230	225	225	215	220	225	230	225	225	225	230	235	245	245	295	
	LO																								
M3000IF2	MED	250	250	260	260	270	275	305	315	315	315	310	310	305	305	310	315	310	310	300	300	295	265	265	
	CNT	252	263	263	270	280	300	312	325	320	315	310	315	310	315	315	320	310	315	305	310	295	265	270	
	U	240	245	245	250	255	255	285	305	310	300	300	295	290	295	300	310	305	305	290	240	275	255	250	
	LO																								
16FI	MED									1	2			2	2	2	1	2							
	CNT																								
	U																								
	LO																								
16E	MED		6	13	20	20	24	27	22	22	25	22	22	23	22	22	245	165	31	17	10	5	6	3	5
	CNT																								
	U																								
	LO																								
16E	MED																								
	CNT																								
	U																								
	LO																								
16Es	MED		16																						
	CNT																								
	U																								
	LO																								





TABLE 62

		BUENOS AIRES, ARGENTINA 134°55', 58°34'																			TIME 80.00				
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	104	104	110	86	58	86	98	104	110	110	139	144	149	152	155	150	152	160	150	150	150	150	103	
	CNT	20	21	19	20	19	18	22	22	16	19	18	19	20	17	20	21	21	20	13	10	10	16	18	21
	UO																								
	LO																								
16F2	MED	290	285	255	235	255	270	235	240	230	230	240	260	230	245	240	250	245	250	260	250	250	280	290	290
	CNT	23	23	23	23	22	21	23	23	22	10	6	2	3	5	7	14	17	24	24	24	24	22	23	23
	UO																								
	LO																								
M130001F2	MED	275	280	295	300	280	275	310	315	300	280	295	290	280	280	280	280	300	295	310	290	290	260	270	
	CNT	11	14	13	20	18	18	21	19	14	10	5	17	17	15	16	12	15	15	7	10	5	5	11	
	UO																								
	LO																								
16FI	MED													U	5	10									
	CNT													1											
16E	MED																	U	U						
	CNT																	260	190						
	UO																	2	1						
	LO																								
16E	MED	160	175	100						100	117	116	115	109	116	111	110	111	120	111					
	CNT	2	17	18						20	16	12	8	9	12	13	12	14	13	1					
	UO																								
	LO																								
16Ea	MED																								
	CNT																								

SHEEP 1-0 MC TO 25-0 MC IN 27 SECONDS.

OCTOBER, 1960

TABLE 61

		LAPRO, CONGO ( 1.2-35°, 28-48°)																				TIME 30.00				
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
16F2	MED	90	94	95	83	77	60	71	92	103	105	116	124	131	139	143	144	140	141	146	140	0	0	0	0	U
	CMT	102	101	103	101	97	76	103	97	106	102	113	120	131	136	140	147	149	149	158	148	2	18	40	20	22
	UO	102	101	103	101	97	76	103	97	106	102	113	120	131	136	140	147	149	149	158	148	2	18	40	20	22
	LO	73	69	74	74	65	53	61	86	93	98	110	125									139				114
16F2	MED	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245
	CMT	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
	UO	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
	LO	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
16F	MED	202	240	255	255	230	215	240	235	220	220	210	210	210	205	210	215	235	250	290	320	270	230	210	200	
	CMT	202	240	255	255	230	215	240	235	220	220	210	210	210	205	210	215	235	250	290	320	270	230	210	200	
	UO	202	240	255	255	230	215	240	235	220	220	210	210	210	205	210	215	235	250	290	320	270	230	210	200	
	LO	202	240	255	255	230	215	240	235	220	220	210	210	210	205	210	215	235	250	290	320	270	230	210	200	
M130001F2	MED	269	276	281	300	322	327	328	326	305	277	261	254	254	252	255	256	252	254	252	260	275	304	313	314	
	CMT	269	276	281	300	322	327	328	326	305	277	261	254	254	252	255	256	252	254	252	260	275	304	313	314	
	UO	269	276	281	300	322	327	328	326	305	277	261	254	254	252	255	256	252	254	252	260	275	304	313	314	
	LO	269	276	281	300	322	327	328	326	305	277	261	254	254	252	255	256	252	254	252	260	275	304	313	314	
16FI	MED	284	289	289	290	309	316	318	323	295	269	253	250	245	246	241	252	262	266	264	237	263	301	305	305	
	CMT	284	289	289	290	309	316	318	323	295	269	253	250	245	246	241	252	262	266	264	237	263	301	305	305	
	UO	284	289	289	290	309	316	318	323	295	269	253	250	245	246	241	252	262	266	264	237	263	301	305	305	
	LO	284	289	289	290	309	316	318	323	295	269	253	250	245	246	241	252	262	266	264	237	263	301	305	305	
16FI	MED	480	490	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	CMT	480	490	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
16E	MED	175	265	315	355	375	390	400	390	370	340	310	245	E												
	CMT	6	22	22	24	25	23	21	21	25	22	17	12	2												
16E	MED	135	119	111	111	109	109	109	109	109	111	111	111	116												
	CMT	2	23	19	21	18	11	12	12	12	12	12	12	12												
16E	MED	30	28	28	27	27	26	28	28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
	CMT	30	28	28	27	27	26	28	28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	

SHEEP 1-25 MC TO 20-0 MC IN 3 MINUTES.

OCTOBER, 1960

TABLE 63

		CANBERRA, AUSTRALIA 135-35', 149-05'																				TIME 150-00			
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	55	52	58	53	50	47	58	68	74	78	85	86	94	96	94	88	89	86	86	92	80	78	74	74
	CNT	21	20	19	15	16	18	20	18	18	19	19	19	19	18	16	15	21	24	23	22	22	21	22	21
	U																								
	LO																								
16F2	MED																								
	CNT																								
	U																								
	LO																								
16F	MED	280	270	260	275	285	290	250	240	225	210	210	200	205	205	210	225	235	250	250	250	260	260	275	280
	CNT	19	18	20	20	20	20	20	20	20	20	20	20	20	18	19	20	23	24	23	22	22	21	20	20
	U																								
	LO																								
M130001F2	MED	280	275	260	260	260	265	300	310	285	290	285	280	285	250	280	290	285	290	285	280	280	275	275	275
	CNT	10	10	10	12	12	13	17	19	17	15	16	14	11	10	12	15	17	14	12	10	11	6	12	8
	U																								
	LO																								
16FI	MED									460	500	520	520	520	550	500	460								
	CNT									3	5	10	12	13	14	11	10	8	2	2					
	U																								
	LO																								
16E	MED																								
	CNT									100	220	275	310	350	355	360	375	370	350	340	310	260	190		
	U																								
	LO																								
16E	MED																								
	CNT																								
	U																								
	LO																								
16E1	MED																								
	CNT																								
	U																								
	LO																								

SHEEP 1-0 MC TO 10-0 MC IN 1 MINUTE 55 SECONDS.

OCTOBER, 1960

TABLE 64

		FAKLAND IS. 151-15', 57-08'																			TIME 40-00				
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED CMT UO LO	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50 28	50	
16F2	MED CMT UO LO	250 250	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255	
16F	MED CMT UO LO	275 11	280 14	295 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300 13	300	
M130001F2	MED CMT UO LO	250 250	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255 255	255	
16FI	MED CMT	320	420	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
16E	MED CMT	180	225	290	320	340	350	370	360	355	340	320	290	255	190	135									
16E	MED CMT	30	28	28	27	27	26	28	28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	

SHEEP 1-0 MC TO 25-0 MC IN 27 SECONDS.

OCTOBER, 1960



TABLE 66

LULEÅ, SWEDEN		105.0N., 22.11E										TIME 15.00													
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	M3000 CNO LO	50 21	57 22	57 22	54 25	46 23	52 23	56 23	61 21	65 24	65 26	67 28	69 27	67 29	70 28	70 28	70 28	67 26	57 24	56 27	51 28	55 24	52 25	50 24	50 21
17 F2	M3000 CNO LO					450 5	300 7	500 9	370 12	375 15	380 19	390 17	355 16	380 11	310 11	325 9	320 7	310 4	400 3						
18 F	M3000 CNO LO	305 24	330 24	325 19	310 20	275 23	250 21	245 21	240 21	235 21	225 22	215 15	215 17	230 18	225 18	225 18	240 17	245 14	250 20	250 20	265 23	265 24	300 23	300 20	295 21
19 F2	M3000 CNO LO	270 17	270 19	270 17	270 21	280 23	280 23	280 23	280 20	270 22	270 23	270 23	280 24	280 22	280 23	280 21	270 21	280 20	290 27	290 26	290 25	280 23	280 21	280 21	270 17
20 F1	M3000 CNO LO					280 2	320 5	380 8	410 10	440 12	470 16	470 17	480 16	480 16	500 12	460 11	470 6	410 4	360 3						
21 F2	M3000 CNO LO	140 1	170 2	210 2	250 14	270 19	290 19	310 10	340 11	340 10	340 11	340 11	340 11	350 18	330 19	320 18	320 10	290 12	260 10	260 8	220 5	180 4			
22 F	M3000 CNO LO					130 2	140 5	125 14	120 10	110 11	110 11	110 11	110 11	110 11	110 11	110 11	110 11	120 12	130 8	140 3	140 6	145 2	140 2	140 2	140 2
23 F	M3000 CNO LO					130 2	140 5	125 14	120 10	110 11	110 11	110 11	110 11	110 11	110 11	110 11	110 11	120 12	130 8	140 3	140 6	145 2	140 2	140 2	140 2
24 F	M3000 CNO LO					130 2	140 5	125 14	120 10	110 11	110 11	110 11	110 11	110 11	110 11	110 11	110 11	120 12	130 8	140 3	140 6	145 2	140 2	140 2	140 2

SWEEP 0.65 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC.

TABLE 60

[illegible]

SWEET 1.0 MC TO 16.0 MC IN 4 MINUTES.

TABLE 65

DOURBES - BELGIUM		(30 IN. 4 + 6 E)										TIME													
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6	MEQ	52	48	44		43	42	52	64	74	80	88	87	91	92	90	88	88	83	88	82	74	60	58	52
	CNT	59	59	57	52	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	LO	45	42	41	38	32	37	47	56	66	68	72	70	77	74	71	74	76	78	72	64	53	48	46	
h'2	MEQ					450	368			300	310	310	310	320	300	288	295	272							
	CNT					2	694			392	352	358	425	372	360	345	1								
	LO					300	260			260	272	278	285	280	295	288									
h'F	MEQ	305	310	300	300	288	272	245	235	230	220	211	210	220	220	225	230	260	250	240	245	240	242	274	296
	CNT	359	359	328	328	278	267	228	228	228	228	228	228	230	230	230	240	240	240	240	240	240	240	240	240
	LO	282	290	288	285	270	242	235	225	220	215	200	205	210	215	220	225	230	240	230	230	230	230	230	230
M3000012	MEQ	260	255	260	265	270	285	315	315	315	305	302	282	290	295	295	295	300	305	300	290	282	270	265	
	CNT	259	259	278	288	278	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	
	LO	268	260	250	255	255	275	310	302	305	289	285	285	284	290	290	290	290	295	295	290	290	275	265	255
f6I	MEQ					360	370	390	420	440	440			472	488	465	330								
	CNT					2	4	3	4	5	3			6	4	2	1								
	LO																								
f6E	MEQ					160	200	268	300	320	330	335	355	350	332	310	280	240	160						
	CNT					7	13	18	19	19	12	15	13	14	18	24	22	14	11						
	LO																								
h'E	MEQ					100	139	110	107	127	106	136	165	165	167	160	171	127							
	CNT					14	23	21	20	29	26	36	68	67	70	70	50	28	22						
	LO																								
f6A	MEQ	E	13	E	12	E	14	17	20	G	30	34	37	G	G	35	G	G	G	25	20	20	19	E	16
	CNT	29	29	27	28	27	27	26	28	27	27	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	LO																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

TABLE 67

WARSAW, POLAND										152-2N, 21-22E												TIME		
HOUR		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23
f6F2	MED	57	54	50	47	47	54	61	68	72	78	79	77	80	78	73	73	74	77	80	78	71	65	61
	LOW	50	46	42	40	40	47	54	61	68	72	78	79	80	78	73	73	74	77	80	78	71	65	61
	HI	60	56	52	50	50	57	64	70	76	80	80	85	85	84	80	76	77	79	82	80	73	63	63
	LO	52	49	46	42	41	51	51	61	67	69	72	73	72	70	70	71	72	74	70	65	60	56	
f6F2	MED						54	62	330	335	350	330	330	335	340	340								
	LOW						5	450	360	440	410	350	360	335	435									
	HI						320	320	310	300	310	305	305	300	300	305								
	LO																							
f6F	MED	500	295	275	275	290	255	250	240	230	220	215	210	210	215	220	225	235	245	260	255			
	LOW	325	310	318	328	330	275	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	HI	290	275	275	275	280	250	240	235	225	220	200	205	205	210	220	225	230	240	250	250	250	250	250
	LO																							
f6F002F2	MED	265	260	260	265	265	290	290	290	290	285	285	285	295	295	290	295	295	290	295	290	295	295	295
	LOW	270	270	270	275	275	285	290	290	290	285	285	285	295	295	290	295	295	290	295	290	295	295	
	HI	265	265	265	270	270	280	285	285	285	285	285	285	295	295	290	295	295	290	295	290	295	295	
	LO	245	250	250	255	255	275	280	275	280	280	275	275	280	280	280	285	285	285	285	270	275	260	255
f6F1	MED					1	400	450	480	500	500	500	500	500	500	500								
	LOW						1	6	10	13	11	9	12	5	6									
	HI																							
	LO																							
f6E	MED	9	12	18	22	110	200	250	300	320	340	355	365	360	360	350	355	305	260	215	115			
	LOW	20	23	310	318	328	275	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	HI																							
	LO																							
f6E	MED					U	105	103	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
	LOW					U	111	105	103	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
	HI					U	111	105	103	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
	LO					U	111	105	103	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
f6E	MED	16	15	12	E	23	30	35	39	40	40	40	39	39	39	35	32	32	31	30	27	21	16	16
	LOW	25	26	27		27	25	27	28	27	270	280	280	280	280	280	280	280	280	280	290	290	280	280
	HI																							
	LO																							

SWEEP 1.0 MC TO 10.0 MC IN 20 SECONDS.

TABLE 70

UNOARING. WESTERN AUSTRALIA 132.05, 116.261

[illegible]

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

AUGUST, 1960

100

7-4M-3-001

[illegible]

SWEEP

AUGUST, 1960

TABLE 71

(35.35, 149.0E)

CANBERRA, AUSTRALIA

[illegible]

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS.

AUGUST, 1960

TABLE 72

(14.8N, 17.6M)

DAKAR, SENEGAL

[illegible]

SWEEP 1.2 MC TO 17.0 MC.

JUNE, 1960

TABLE 74

(14.6N, 17.4W)

TABLE 78

GRAZ, AUSTRIA		147.1N., 15.5E)															TIME 15:00								
HOURL	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
16F2	MED	44	44	44	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
16F2	CNT	10	13	8	11	12	8	8	16	16	18	22	24	24	25	25	21	20	15	17	15	15	14	9	11
16F2	UQ	50	48	50	49	48	43	44	40	39	35	41	40	128	127	132	127	130	129	118	110	101	86	77	62
16F2	LO	40	39	41	43	40	35	35	41	41	100	117	120	119	118	110	108	93	77	52	42	42	47	42	
16F2	MED																								
16F2	CNT																								
16F2	UQ																								
16F2	LO																								
16F2	MED																								
16F2	CNT																								
16F2	UQ																								
16F2	LO																								
16F2	MED																								
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16F2	CNT																								
16F2	UQ																								
16F2	LO																								
16F2	MED																								
16F2	CNT																								
16F2	UQ																								

TABLE 81

GRAZ, AUSTRIA		(47.1°N, 15.5°E)											TIME 15:00											
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	U	46	49	49	46	45	46	43	56	85	100	110	124	123	121	121	115	87	71	56	55	49	48	U
	MED	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	CNT	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	UQ	U	45	44	48	44	42	41	52	80	92	110	118	118	112	114	115	106	85	66	50	48	45	
16F2	MED																							
	CNT																							
	UQ																							
16F	U	46	49	49	46	45	46	43	56	85	100	110	124	123	121	121	115	87	71	56	55	49	48	U
	MED	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	CNT	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	UQ	U	45	44	48	44	42	41	52	80	92	110	118	118	112	114	115	106	85	66	50	48	45	
M13000IF2	MED																							
	CNT																							
	UQ																							
16FI	U	46	49	49	46	45	46	43	56	85	100	110	124	123	121	121	115	87	71	56	55	49	48	U
	MED	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	CNT	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	UQ	U	45	44	48	44	42	41	52	80	92	110	118	118	112	114	115	106	85	66	50	48	45	
16E	MED																							
	CNT																							
	UQ																							
16E	U	46	49	49	46	45	46	43	56	85	100	110	124	123	121	121	115	87	71	56	55	49	48	U
	MED	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	CNT	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	UQ	U	45	44	48	44	42	41	52	80	92	110	118	118	112	114	115	106	85	66	50	48	45	
16E	MED																							
	CNT																							
	UQ																							
16Ea	U	46	49	49	46	45	46	43	56	85	100	110	124	123	121	121	115	87	71	56	55	49	48	U
	MED	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	CNT	U	53	53	46	51	49	51	4	66	91	114	127	129	132	128	130	126	117	91	84	67	56	54
	UQ	U	45	44	48	44	42	41	52	80	92	110	118	118	112	114	115	106	85	66	50	48	45	
16Ea	MED																							
	CNT																							
	UQ																							

SHEEP 2.0 MC TO 18.0 MC IN 50 SECONDS.

NOVEMBER, 1959

TABLE 82

DAKAR, SENEGAL													(14.8°N, 17.4°W)											TIME 0:00			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
16F2	MED	0	0	U	0	U	0	U	0	U	0	U	0	U	0	U	0	U	0	U	0	0	0	0			
	CNT	1	1	3	4	6	52	53	53	100	126	142	150	144	65	560	U	45	U	42	0	0	0	0			
	UQ																										
	UQ																										
16F2	MED																										
	CNT																										
	UQ																										
	UQ																										
16F	MED	230	225	228	220	220	220	230	260	265	235	220	210	200	205	220	230	260	260	300	330	278	260	235			
	CNT	23	27	28	27	28	28	23	23	29	26	28	28	26	24	20	24	24	28	26	26	20	20	24			
	UQ																										
	UQ																										
M13000IF2	MED																										
	CNT																										
	UQ																										
	UQ																										
16FI	MED																										
	CNT																										
	UQ																										
	UQ																										
16E	MED																										
	CNT																										
	UQ																										
	UQ																										
16Ea	MED																										
	CNT																										
	UQ																										
	UQ																										

SHEEP 1.2 MC TO 17.0 MC.

NOVEMBER, 1959

TABLE 83

OJIBOWIT, FRENCH SOMALILAND												(11.4°N, 43.2°E)												TIME 4:50											
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23											
16F2	MED	U	U		63	57	57	38																											
	UQ	2	2	15	19	22	21	1																											
	CNT	2	2	15	19	22	21	1																											
	LO																																		
16F2	MED																																		
	UQ																																		
	CNT																																		
	LO																																		
16F	MED	245	240	440	230	225	250	250	242	235	230	225	220	212	215	232	250	270	315	355	352	280	255	250											
	UQ	45	26	27	26	25	27	27	27	26	25	25	23	22	21	24	28	25	27	12	10	17	19	21											
	CNT	45	26	27	26	25	27	27	27	26	25	25	23	22	21	24	28	25	27	12	10	17	19	21											
	LO																																		
M13000IF2	MED	U	U		312	320	310																												
	UQ	1	1	12	18	21	20																												
	CNT	1	1	12	18	21	20																												
	LO																																		
16FI	MED																																		
	UQ																																		
	CNT																																		
	LO																																		
16E	MED	E	E	E	E	E	E	250	305	350	375	385	300	380	365	350	300	295	E	E	E	E	E	E											
	UQ	2	2	1	3	8	11	25	22	23	18	13	10	14	12	13	11	7	23	8	1	1	1	1											
	CNT	2	2	1	3	8	11	25	22	23	18	13	10	14	12	13	11	7	23	8	1	1	1	1											
	LO																																		
16E	MED	E	E	E	E	E	E	125	120				110	115	120	130	130	E	E	E	E	E	E	E											
	UQ	2	2	1	3	8	11	26	15	10			11	12	1	1	1	25	8	1	1	1	1	1											
	CNT	2	2	1	3	8	11	26	15	10			11	12	1	1	1	25	8	1	1	1	1	1											
	LO																																		
16Ea	MED	26	20	20	20	21	22	43	44	60	65	67	66	68	68	60	60	55	33	17	17	21	32	32											
	UQ	26	25	21	27	26	27	26	27	26	27	25	26	27	26	26	27	27	21	27	27	27	27	27											
	CNT	26	25	21	27	26	27	26	27	26	27	25	26	27	26	26	27	27	21	27	27	27	27	27											
	LO																																		

SHEEP 1.25 MC TO 20.0 MC.

NOVEMBER, 1959

TABLE 84

TAHITI, SOCIETY IS.		(17.75°S, 149.3°W)											TIME 1500												
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	U																								
	MED	138	112	105	94	88	93	112	105	111	122	140	148	160	160	159	155	160	155	150	140	145	151	148	151
	CNT	22	20	19	19	18	15	18	21	15	15	16	17	20	19	21	18	21	21	21	20	10	17	18	18
	UQ	22	20	19	19	18	15	18	21	15	15	16	17	20	19	21	18	21	21	21	20	10	17	18	18
17F2	U																								
	MED																								
	CNT																								
	UQ																								
17F	U																								
	MED	248	240	278	292	280	260	245	238	235	245	220	238	245	230	238	240	245	260	288	310	310	310	280	265
	CNT	26	26	24	21	20	19	19	22	20	18	17	20	21	20	21	18	21	17	18	21	19	23	23	23
	UQ	26	26	24	21	20	19	19	22	20	18	17	20	21	20	21	18	21	17	18	21	19	23	23	23
180000F2	U																								
	MED	308	298	268	285	285	310	330	325	295	278	275	272	275	280	275	275	275	272	270	265	250	265	265	295
	CNT	16	14	10	9	16	11	14	19	11	14	11	14	11	9	11	8	11	12	12	13	7	7	6	10
	UQ	16	14	10	9	16	11	14	19	11	14	11	14	11	9	11	8	11	12	12	13	7	7	6	10
19F1	U																								
	MED																								
	CNT																								
	UQ																								
19E	U																								
	MED																								
	CNT																								
	UQ																								
19E	U																								
	MED																								
	CNT																								
	UQ																								
19E	U																								
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19E	U																								
	MED																								
	CNT																								
	UQ																								
19E	U																								

TABLE 86

SYOKA BASE, ANTARCTICA (169-05, 39+6E)																								TIME 45.0E			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
f6F2	MED	17	18	22	15	16	12	15	16	12	14	10	12	11	12	14	16	17	14	10	16	16	19	14			
CNT	17	20	21	15	16	15	14	12	14	19	21	20	21	22	22	21	20	22	21	23	25	28	23	20			
UO	52	50	57	58	54	67	64	70	72	70	69	66	67	68	70	72	75	70	69	63	59	57	54	53			
LQ	44	44	44	44	42	50	47	52	56	54	54	56	59	60	60	59	62	58	56	52	50	45	44	42			
nF2	MED	435	460	420	445	510	510	500	495	500	520	500	500	500	500	500	460	440	405								
CNT	1	3	9	16	15	15	14	19	20	20							13	7	3								
UO																											
LQ																											
nF	MED	390	380	395	400	335	305	285	285	270	240	235	240	240	260	250	260	255	250	265	280	295	320	330			
CNT	19	21	25	21	19	16	11	14	11	22	20	21	19	20	18	20	19	19	21	25	28	24	21	23			
UO																											
LQ																											
M3000IF2	MED																										
CNT																											
UO																											
LQ																											
f6F1	MED	350	330	330	330	340	400	440	450	460	470	480	490	500	490	470	460	440	400								
CNT	2	8	12	12	12	12	12	12	15	22	19	20	17	18	15	14	13	9	6								
UO																											
LQ																											
f6E	MED	300	285	280	270	275	285	300	310	320	340	335	360	350	335	340	330	320	300	300	260	245	305	280			
CNT	9	11	11	13	11	12	11	13	10	14	12	8	12	8	8	11	12	14	17	14	6	13	10				
UO																											
LQ																											
nF	MED	125	120	110	115	110	110	110	110	105	105	105	105	105	105	105	105	110	110	115	115	115	120	120			
CNT	6	11	11	13	15	12	13	13	11	16	14	12	14	9	12	15	17	14	17	20	12	10	13	12			
UO																											
LQ																											
f6Ea	MED	38	33	33	30	31	35	35	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30			
CNT	24	23	25	22	24	23	22	22	18	200	17	12	16	11	12	16	18	15	19	23	26	22	26	23			
UO																											
LQ																											

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

NOVEMBER, 1959

TABLE 85

TANANARIVE, MALAGASY REPUBLIC																							118+55, 47+5E1				TIME 45.0E			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23						
f6F2	MED	86	82	74	70	68	66	79	95	109	114	120	124	126	125	124	120	120	119	138	108	106	99	96	95					
	CNT	29	29	28	28	29	27	26	25	28	28	26	29	27	27	28	28	27	26	27	26	26	28	27						
	UO																													
	LQ																													
nF2	MED																													
	CNT																													
	UO																													
	LQ																													
nF	MED																													
	CNT																													
	UO																													
	LQ																													
M3000IF2	MED	265	270	265	265	255	260	280	275	270	262	260	250	255	250	250	250	260	262	270	270	265	268	265	265					
	CNT	29	29	28	28	29	27	26	25	28	28	26	29	27	27	28	28	27	26	27	26	26	28	27						
	UO																													
	LQ																													
f6F1	MED																													
	CNT																													
	UO																													
	LQ																													
f6E	MED																													
	CNT																													
	UO																													
	LQ																													
n'E	MED																													
	CNT																													
	UO																													
	LQ																													
f6Ea	MED	22	20	23	20	22	24	27	20	28	280	17	10	7	21	25	27	27	26	17	18	19	22	21	27					
	CNT	28	28	27	26	28	26	25	20	28	280	17	10	7	21	25	27	27	26	17	18	19	22	21	27					
	UO																													
	LQ																													

SWEEP 1.25 MC TO 20.0 MC.

NOVEMBER, 1959

TABLE 86

OAKAR, SENEGAL																							11+48N, 17+4W				TIME 0.0			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23						
f6F2	MED	0	0	132	70	45	54	63	105	130	162	150	158	158	163	0	0	165	160	162	161	132	132	0						
CNT	4	9	9	132	70	45	54	63	105	130	162	150	158	158	163	22	17	21	22	19	10	6	5	3						
UO																														
LQ																														
nF2	MED	350	315	355	380																									
CNT	1	1	1	1																										
UO																														
LQ																														
nF	MED	255	250	230	215	210	225	235	252	240	230	220	210	200	200	210	210	225	232	250	300	362	325	280						
CNT	29	29	29	30	29	26	28	30	31	27	27	26	28	28	29	28	29	27	24	27	30	26	15	27						
UO																														
LQ																														
M3000IF2	MED	292	312	308	325	310	305	308	315	335	328	318	302	290	275	262	262	275	275	278	262	235	255	260						
CNT	2	2	2	5	8	10	14	23	16	22	24	20	17	14	8	6	5	4	2	2	1	1	2	1						
UO																														
LQ																														
f6F1	MED																													
CNT																														
UO																														
LQ																														
f6E	MED	3	5	12	6	8	12	18	18	24	310	350	380	400	400	388	375	350	305	240	132									
CNT																														
UO																														
LQ																														
nE	MED																													
CNT																														
UO																														
LQ																														
f6A	MED	26	22	24	27	26	26	26	30	46	37	40		36	44	41	40	37	38	43	30	28	30	26						
CNT	24	26	27	30	29	28	30	30	31	270	22	27	29	28	29	27	29	29	29	29	29	28	19	22						
UO																														
LQ																														



TABLE 89

JOUBOUTI, FRENCH SOMALILAND

(11.6N, 43.2E)

	HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT UO LO		U 63 1			U 66 3	E 65 8	E 64 12				U 60 1	U 110 1	U 109 2	U 115 1					U 82 2	U 90 1				
n' F2	MED CNT UO																								
n' F	MED CNT UO LO	285 26	240 27	230 28	235 25	232 24	220 24	220 28	250 29	240 28	225 25	215 26	210 25	205 26	205 25	215 24	220 22	242 26	260 30	300 30	380 14	U 350 3	U 210 3	U 280 7	U 250 12
m30000f2	MED CNT UO LO		U 30 1			U 30 3	U 325 7	U 312 10				U 295 1	U 295 3	U 240 2	U 245 1					U 210 2	U 220 1				
f6F1	MED CNT									U 220 1															
f6E	MED CNT		E 1			E 3	E 21	E 19	E 9	315 27	350 19	375 9	390 9	400 5	390 10	375 11	350 11	305 6	290 5	E 18	E 6	E 1			
h'E	MED CNT		E	E		E 3	E 3	E 3	120				U 100 1	U 100 1	U 110 1	U 112 1	E 125	U 125	U 125	U 20	U 20	U 7	U 1		
f6E4	MED CNT	32 30	25 28	18 30	16 28	18 29	21 28	34 28	39 29	44 28	65 28	100 26	95 26	84 28	66 28	66 30	65 28	65 30	65 29	65 26	65 28	E 30	U 18 30	U 32 29	U 34 28

SWEEP 1.25 MC TO 20.0 MC.

OCTOBER, 1959

TABLE 90

WHITE SOCIETY IS. 17.75, 19.3M

[illegible]

SWEEP 1.2 MC TO 17.0 MC.

OCTOBER, 1959

TABLE 91

TANANARIVE, MALAGASY REPUBLIC

(18.85, 47.5E)

	NOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Fe2	MED	90	72	62	60	58	56	50	40	117	126	125	128	128	128	125	124	124	124	121	118	116	108	98	92
	CNT	24	25	26	26	26	26	26	24	27	27	27	27	26	27	27	28	28	28	28	28	27	28	28	28
	Lo																								
h'2	MED	305																							
	CNT	26	27	25	26	27	26	25	25	25	24	23	22	23	23	23	23	23	23	23	23	23	23	23	
	Lo																								
h'F	MED	260	250	260	278	278	285	290	295	250	245	240	230	225	238	240	250	260	276	277	280	285	296	270	276
	CNT	26	27	25	26	27	26	25	24	27	27	27	27	26	27	27	27	27	27	27	28	28	28	27	
	Lo																								
M3000/F2	MED	290	285	270	265	270	270	295	290	285	285	270	265	265	260	260	260	265	270	278	275	280	290	280	280
	CNT	24	25	26	26	26	26	25	24	27	27	27	27	26	27	27	28	28	28	28	28	27	27	27	
	Lo																								
FeFl	MED																								
	CNT																								
	Lo																								
FeE	MED																								
	CNT	13	11	40	42	45	23	24	23	23	24	15	10	5	8	19	27	28	23						
	Lo																								
h'E	MED																								
	CNT	13	11	20	22	25	24	16	23	15	15	110	110	110	113	115	120	120	125						
	Lo																								
FeA	MED																								
	CNT	22	25	25	25	27	26	24	25	24	270	270	270	16	17	32	26	27	27	28	26	31	22	27	
	Lo																								

SWEEP 1.25 MC TO 20.0 MC.

OCTOBER, 1969

TABLE 92

		STOR												STOR												STOR												STOR																					
		STOR												STOR												STOR												STOR												STOR									
PDR		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23																																			
16F2	MEF	17	12	18	22	55	56	70	76	80	82	85	86	93	95	96	76	79	75	76	21	20	16	55																																			
	UO	33	11	16	20	15	16	20	18	20	22	21	24	24	22	24	26	28	25	27	26	21	20	16																																			
	UO	55	44	50	58	63	70	74	85	87	90	92	94	95	96	100	96	88	82	83	66	59	60	45																																			
16F2	MEF	32	40	40	43	46	49	45	57	60	62	60	63	62	65	79	74	64	55	51	46	44	34	42																																			
	UO	450	482	446	425	450	405	420	476	495	415	410	415	405	405																																												
	UO	1	2	17	15	17	17	13	14	14	17																																																
16F	MEF	330	420	430	430	385	400	370	385	250	240	250	255	240	250	240	260	255	260	265	270	260	295	310																																			
	UO	15	13	19	21	23	21	19	20	17	19	18	20	18	22	19	23	26	29	26	26	24	22	17																																			
	UO																																																										
M30001F2	MEF	260	300	290	255	250	300	255	280	200	300	320	325	340	330	310	310	285	270	260	250	275	305	300																																			
	UO	9	6	7	4	9	9	12	13	14	7	5	5	8	6	7	10	10	7	8	8	4	10																																				
	UO	130	125	130	130	130	125	125	115	110	110	110	105	105	105	110	105	110	115	145	135	130	120	130																																			
16F1	MEF	380	460	420	440	400	480	440	440	400	480	480	440	400	480	480	420	420																																									
	UO	9	13	10	13	14	9	10	4	7	4																																																
	UO																																																										
16E	MEF	260	300	290	255	250	300	255	280	200	300	320	325	340	330	310	310	285	270	260	250	275	305	300																																			
	UO	9	6	7	4	9	9	12	13	14	7	5	5	8	6	7	10	10	7	8	8	4	10																																				
	UO	130	125	130	130	130	125	125	115	110	110	110	105	105	105	110	105	110	115	145	135	130	120	130																																			
16E	MEF	260	300	290	255	250	300	255	280	200	300	320	325	340	330	310	310	285	270	260	250	275	305	300																																			
	UO	9	6	7	4	9	9	12	13	14	7	5	5	8	6	7	10	10	7	8	8	4	10																																				
	UO	130	125	130	130	130	125	125	115	110	110	110	105	105	105	110	105	110	115	145	135	130	120	130																																			

0.038M NaOH 0.038M NaOH 0.038M NaOH

OCTOBER, 1959

TABLE 94

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

SEPTEMBER, 1959

TABLE 93

[illegible]

SWEEP 2.0 MC TO 18.0 MC IN 50 SECONDS.

SEPTEMBER, 1959

TABLE 96

[illegible]

SWEEP 2.0 MC TO 18.0 MC IN 50 SECONDS.

JUNE, 1959

TABLE 95

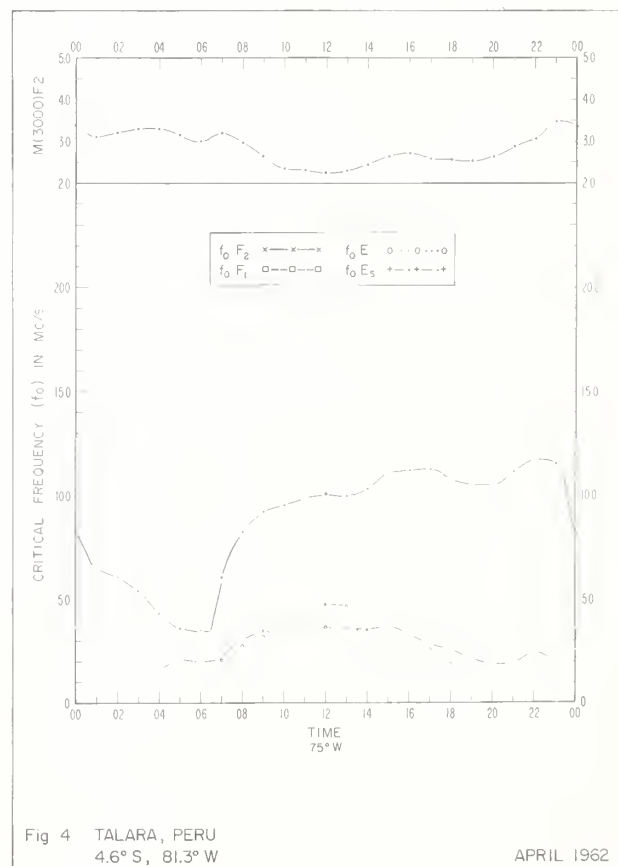
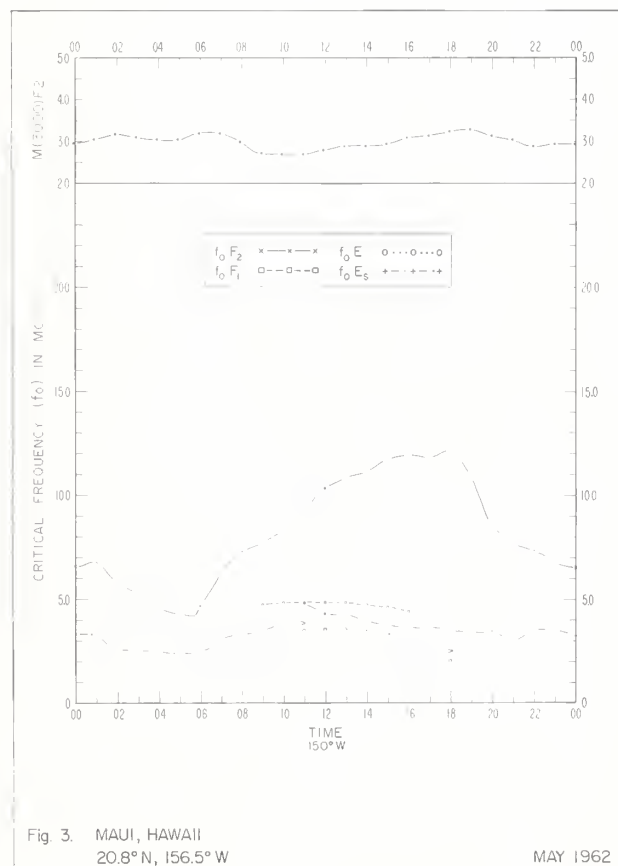
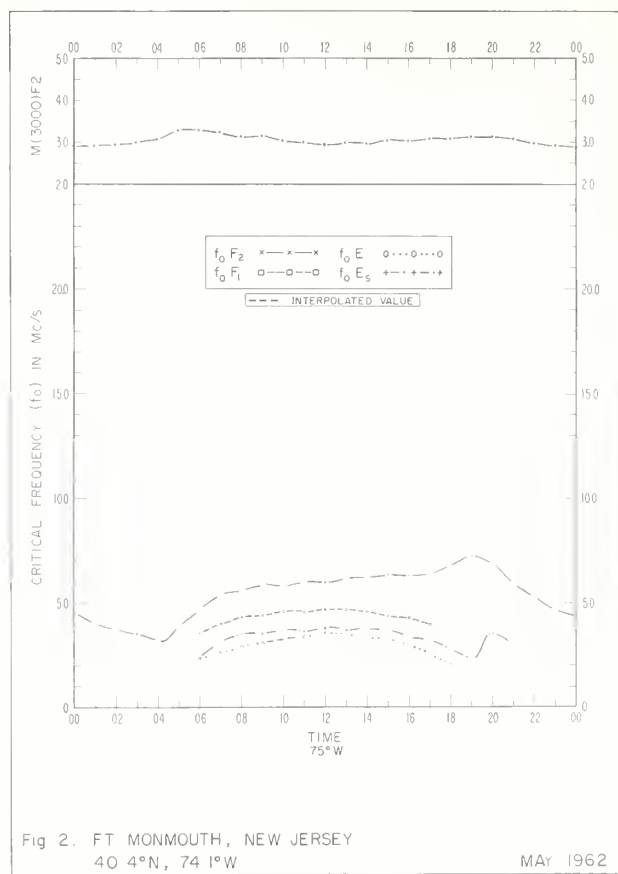
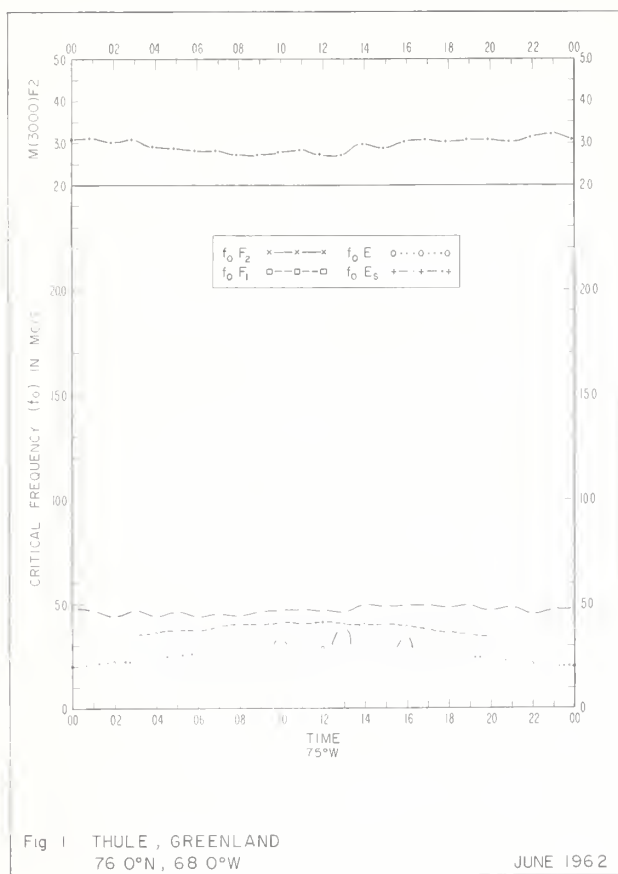
[illegible]

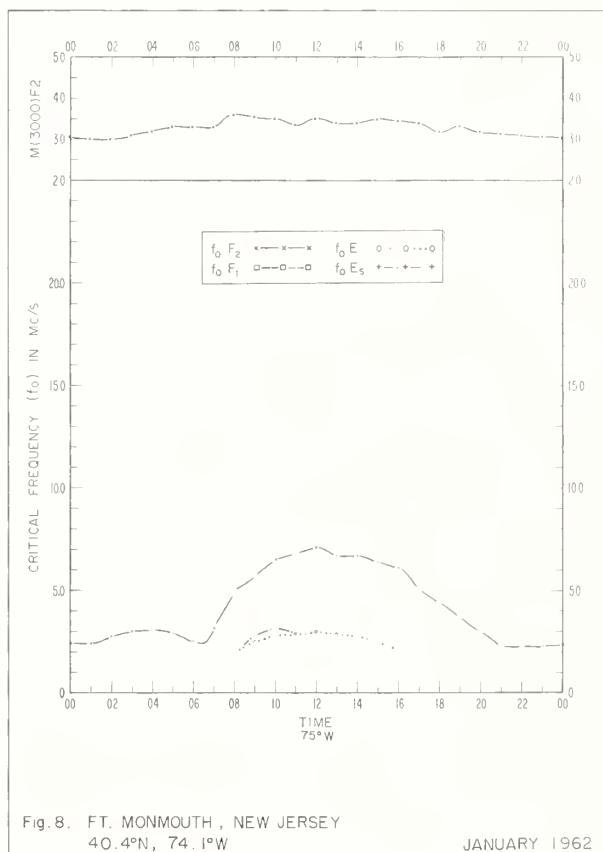
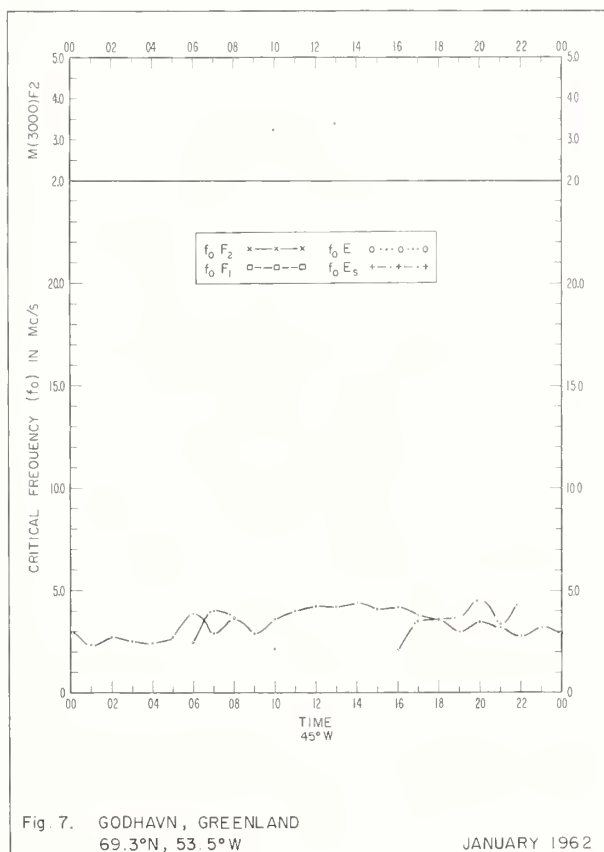
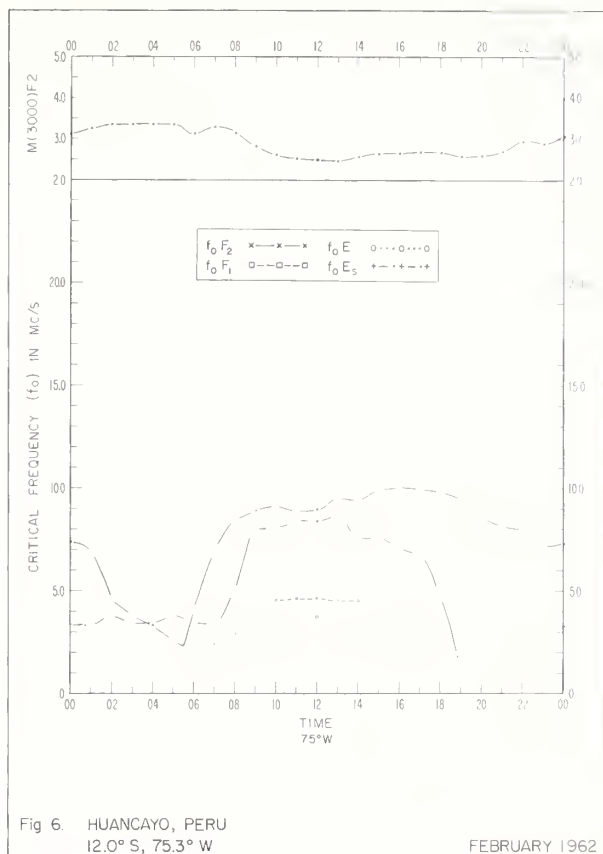
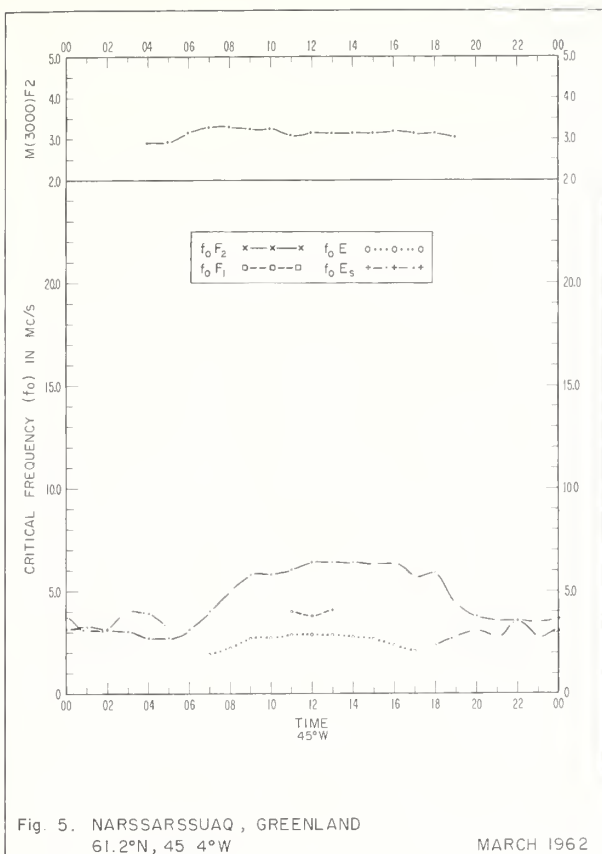
SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

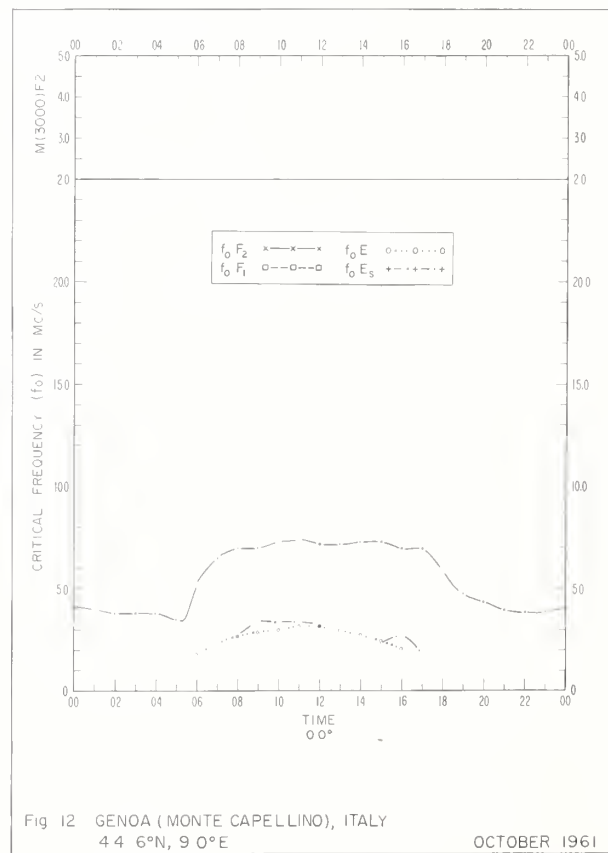
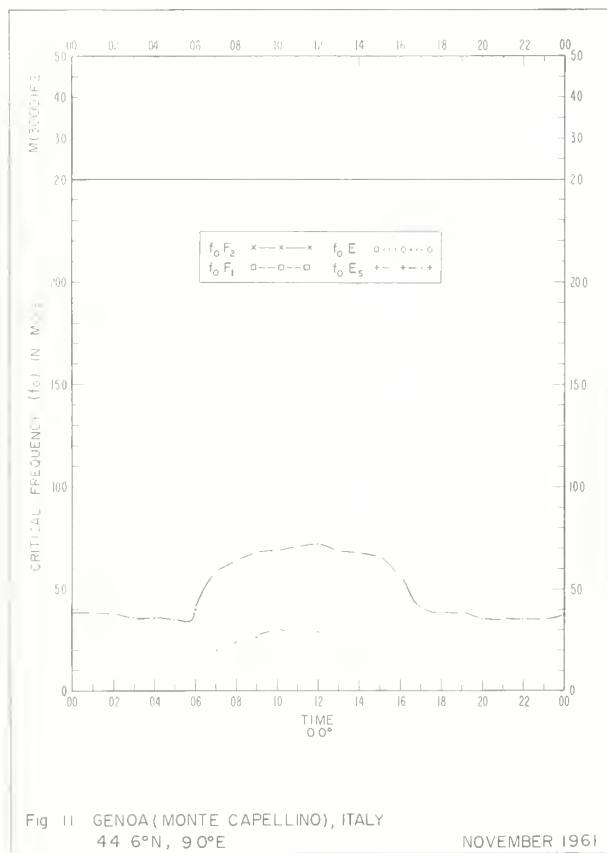
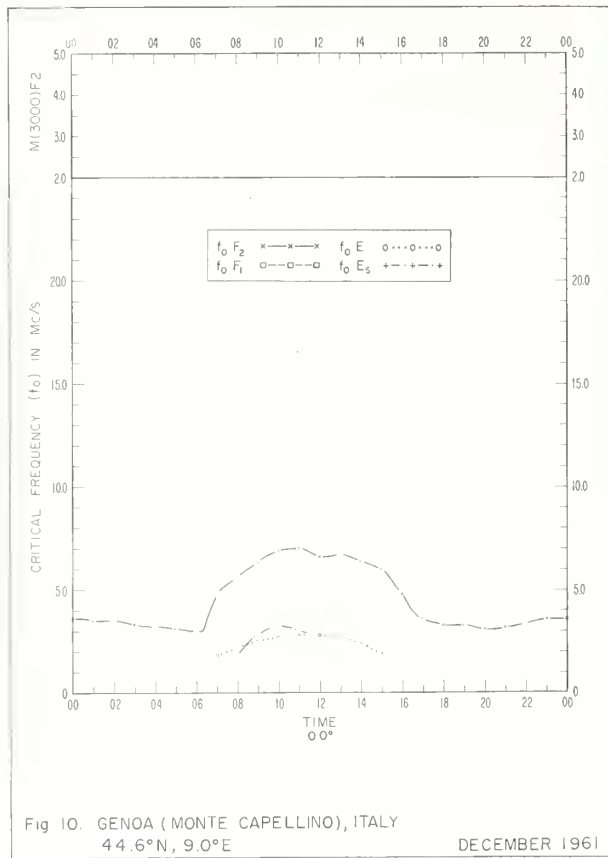
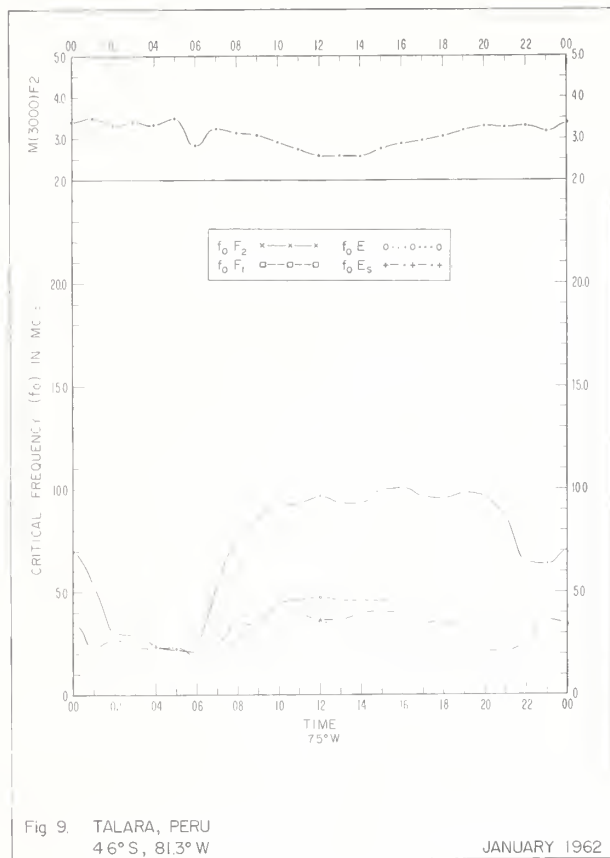
AUGUST, 1959











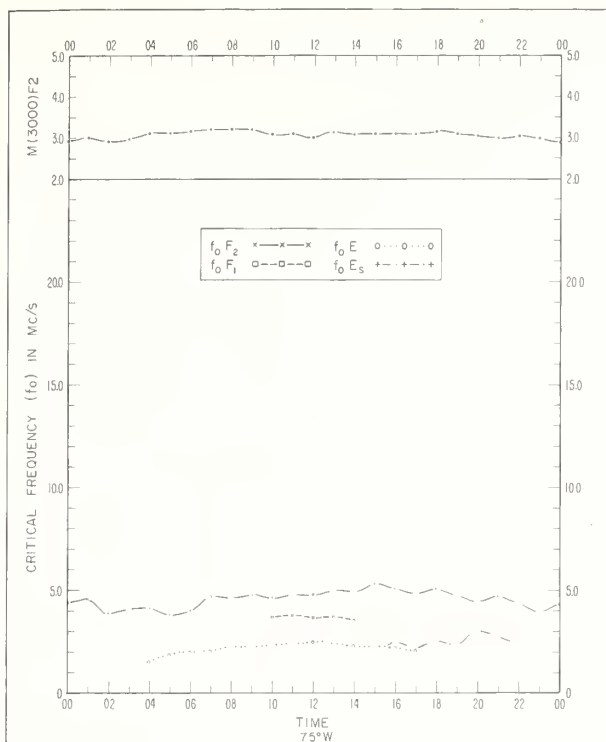


Fig 13. THULE, GREENLAND  
76 0°N, 68 0°W

SEPTEMBER 1961

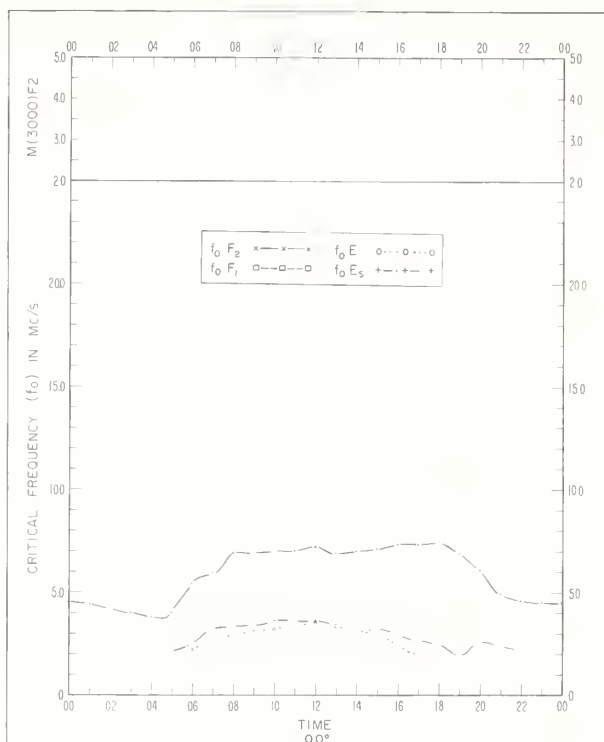


Fig 14 GENOA (MONTE CAPELLINO), ITALY  
44 6°N, 9 0°E

SEPTEMBER 1961

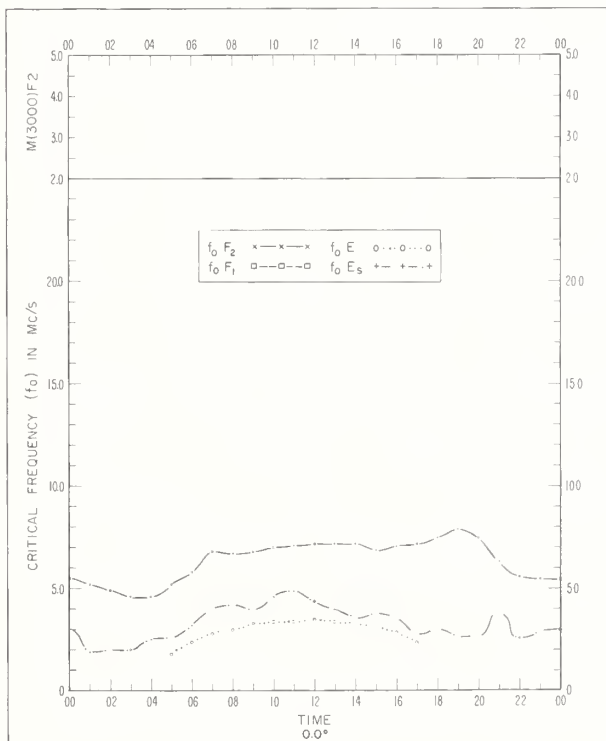


Fig 15. GENOA (MONTE CAPELLINO), ITALY  
44 6°N, 9.0°E

AUGUST 1961

STATION CODE MO YR

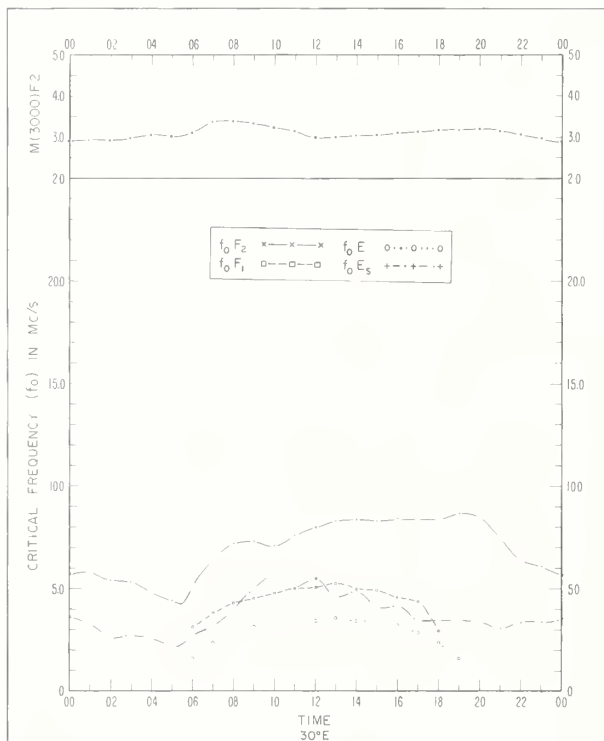
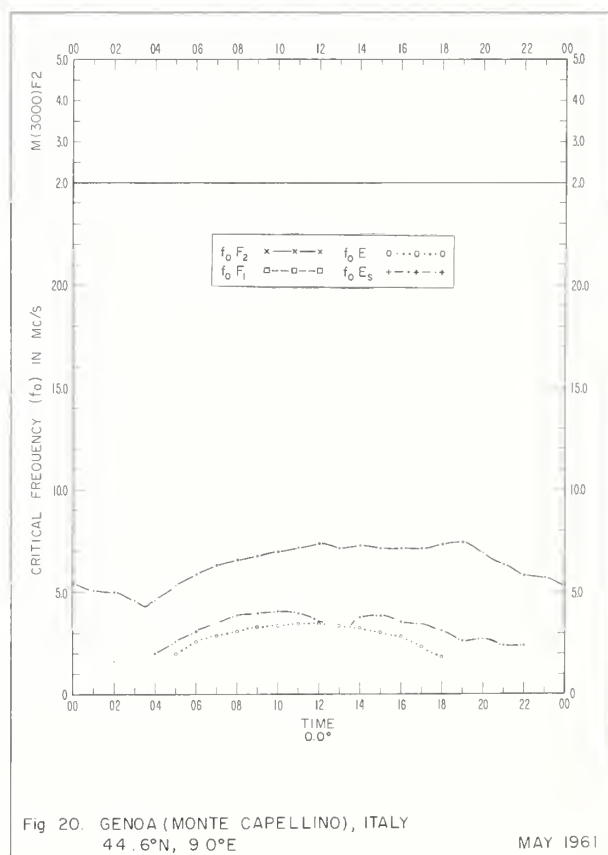
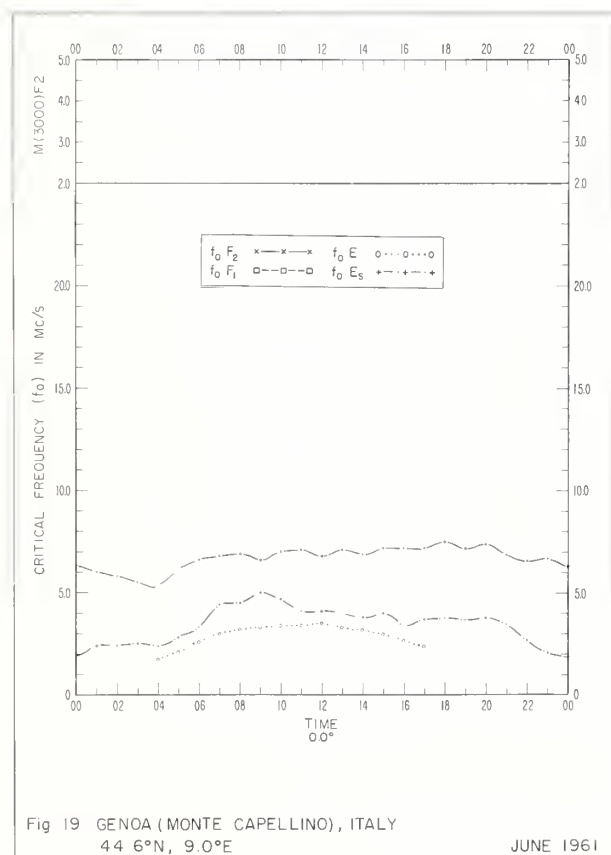
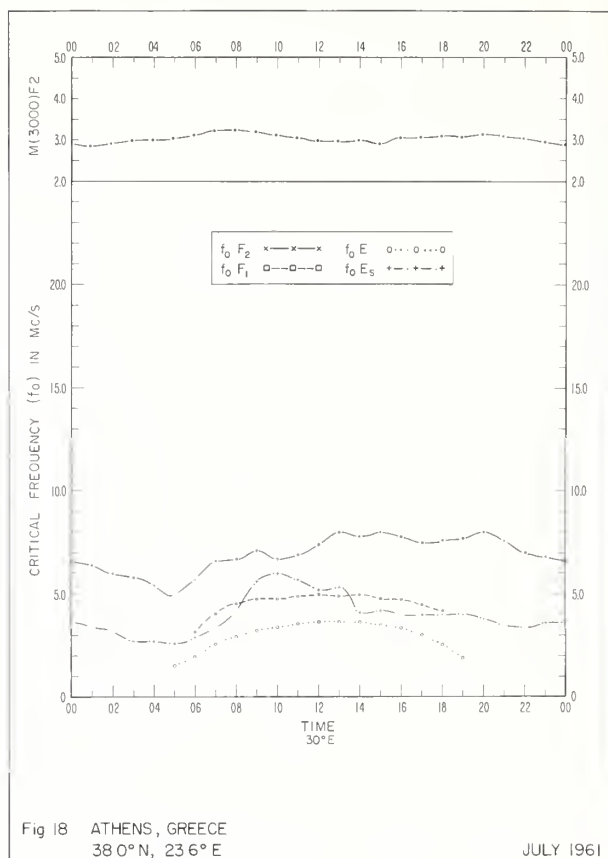
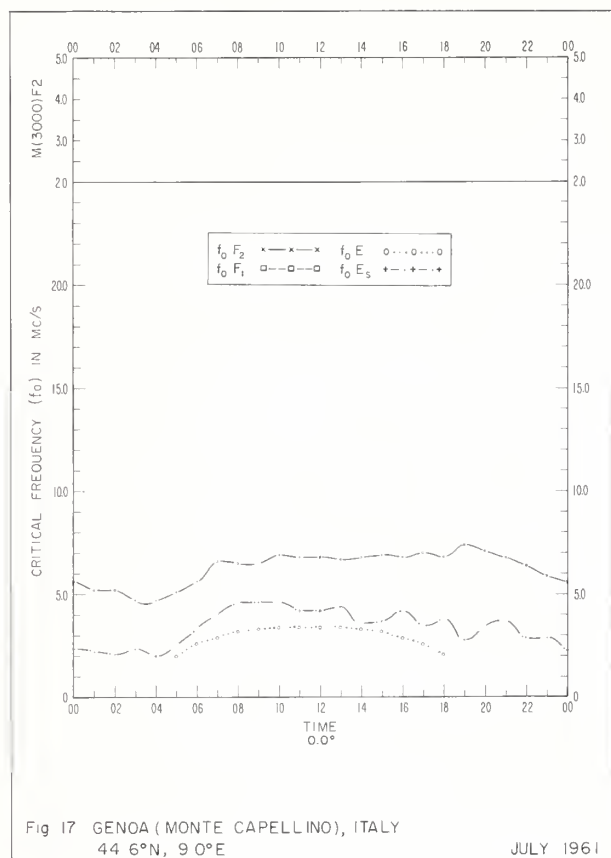


Fig 16. ATHENS, GREECE  
38.0°N, 23.6°E

AUGUST 1961

STATION CODE MO YR



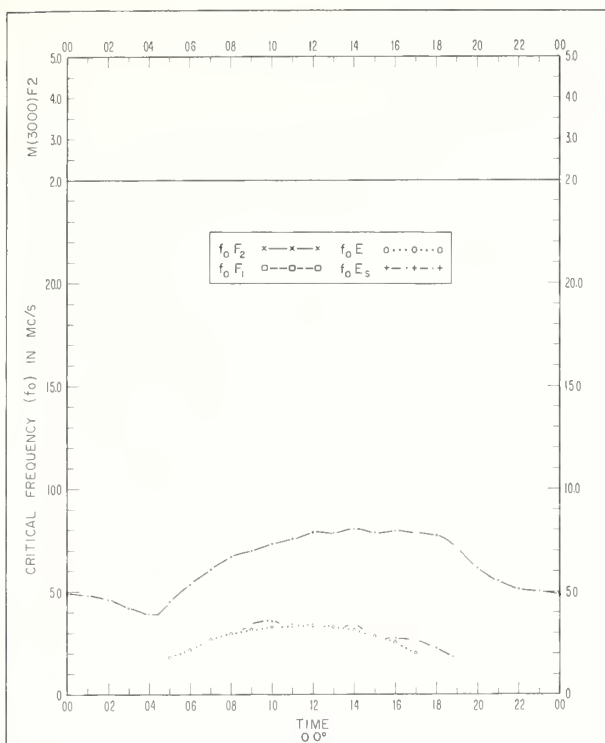


Fig 21. GENOA (MONTE CAPELLINO), ITALY  
44.6°N, 9.0°E

APRIL 1961

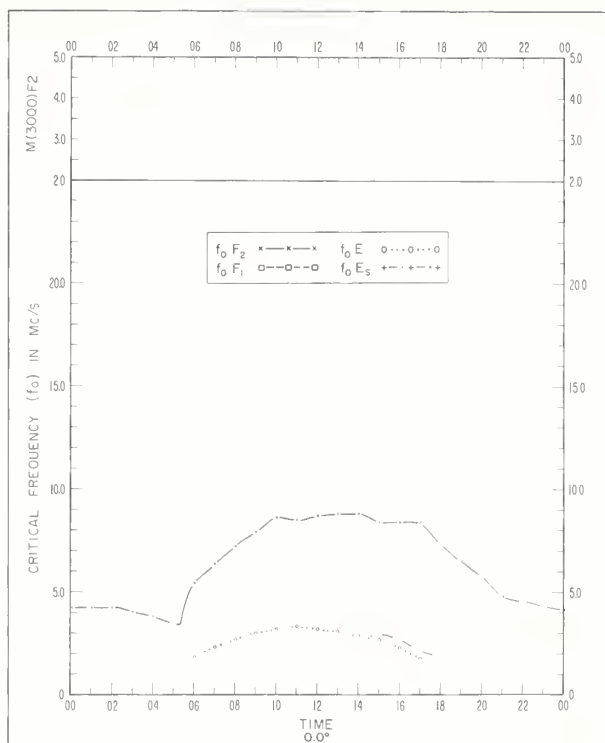


Fig 22. GENOA (MONTE CAPELLINO), ITALY  
44.6°N, 9.0°E

MARCH 1961

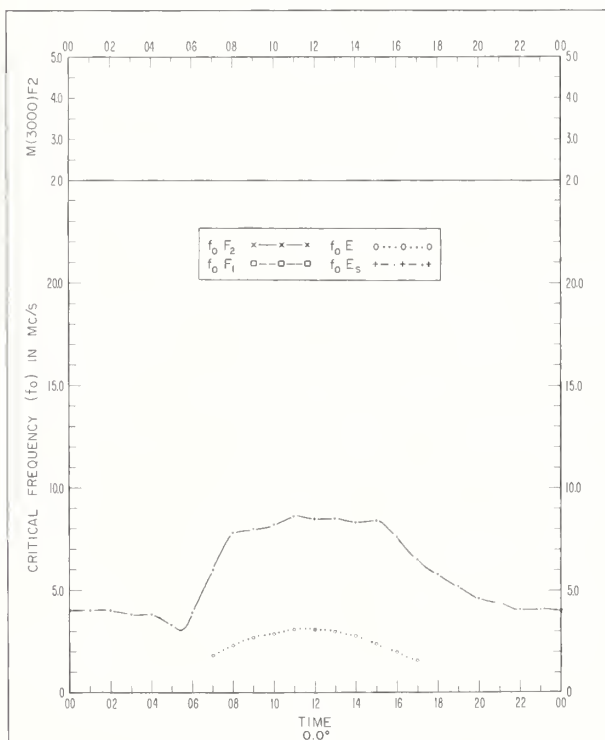


Fig 23. GENOA (MONTE CAPELLINO), ITALY  
44.6°N, 9.0°E

FEBRUARY 1961

STATION CODE MO. YR

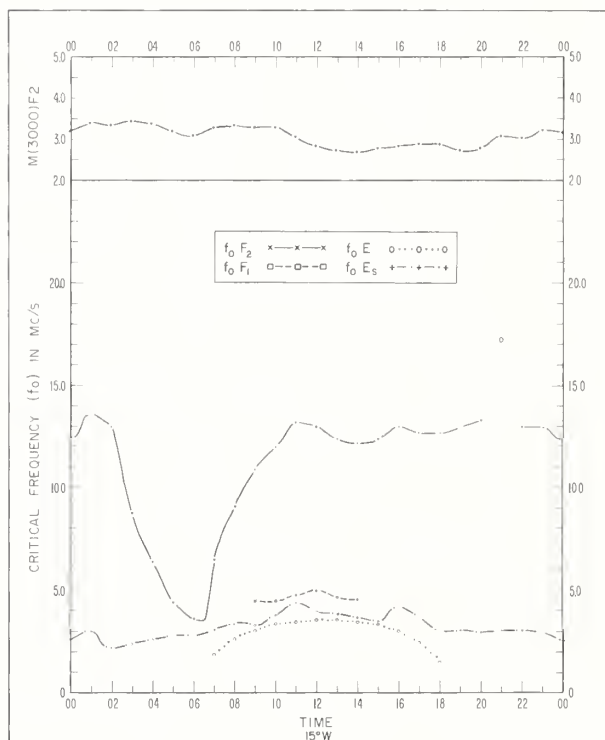
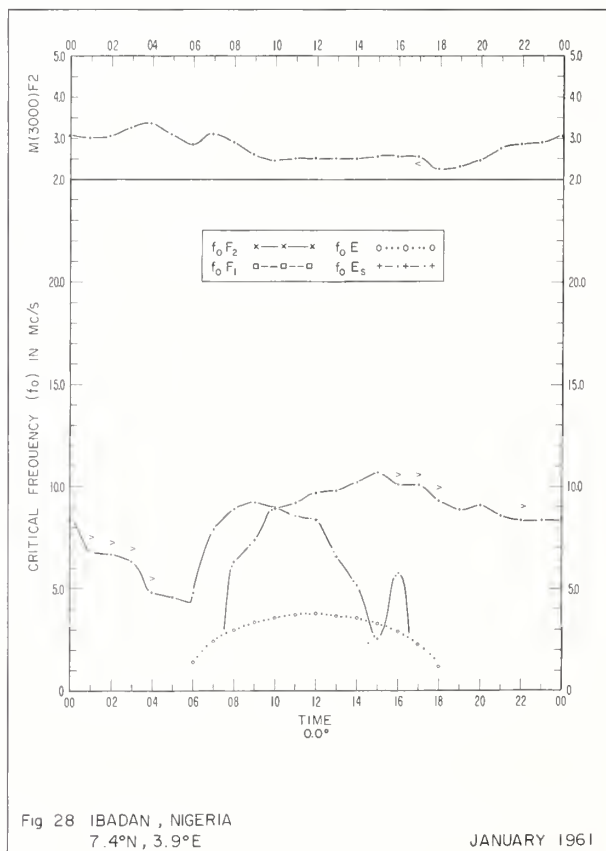
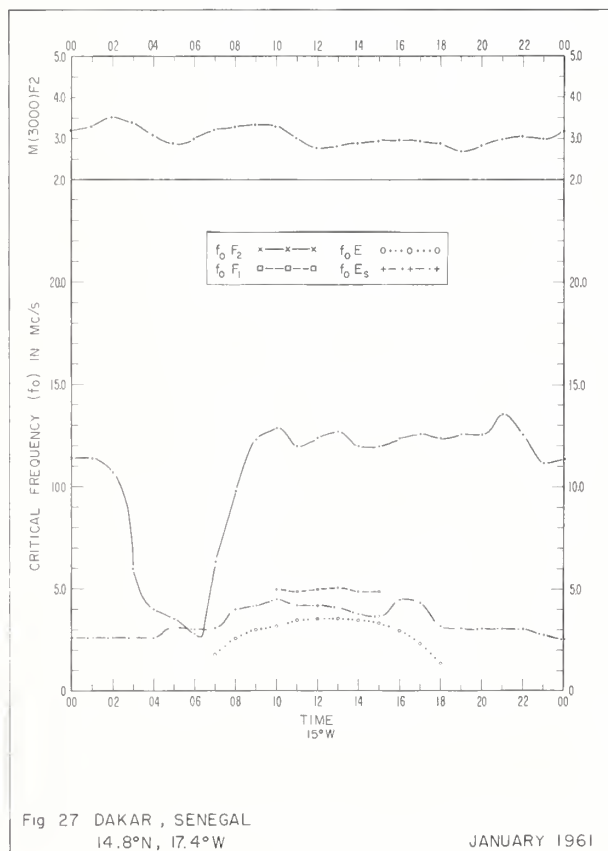
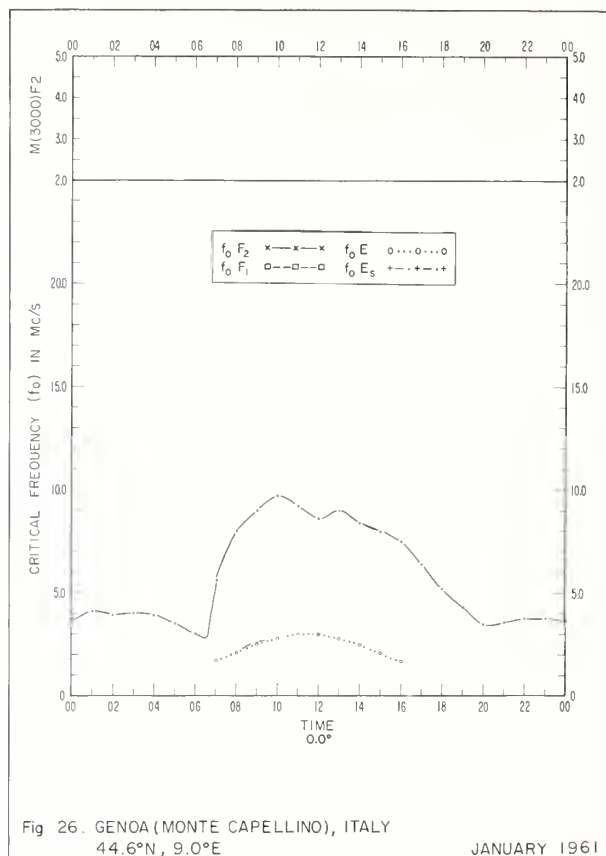
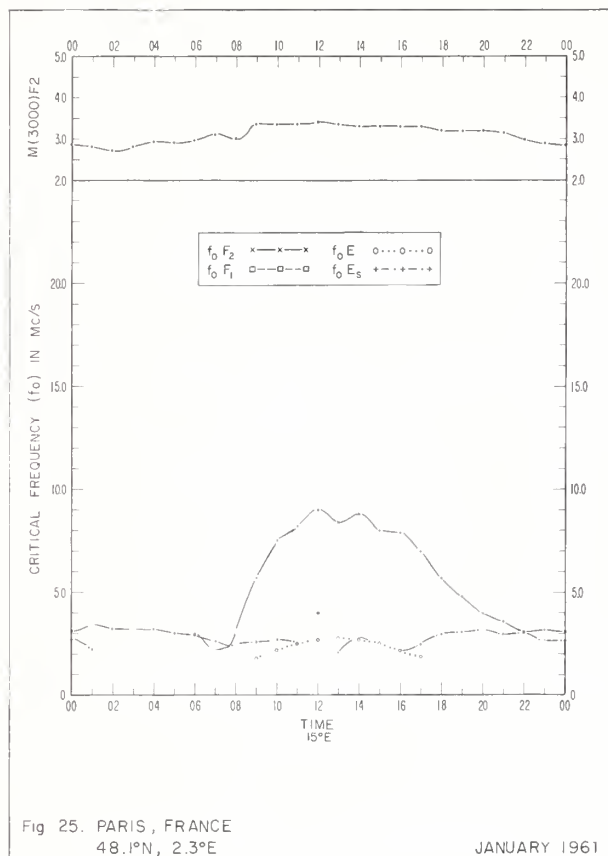


Fig 24. DAKAR, SENEGAL  
14.8°N, 17.4°W

FEBRUARY 1961

STATION CODE MO. YR





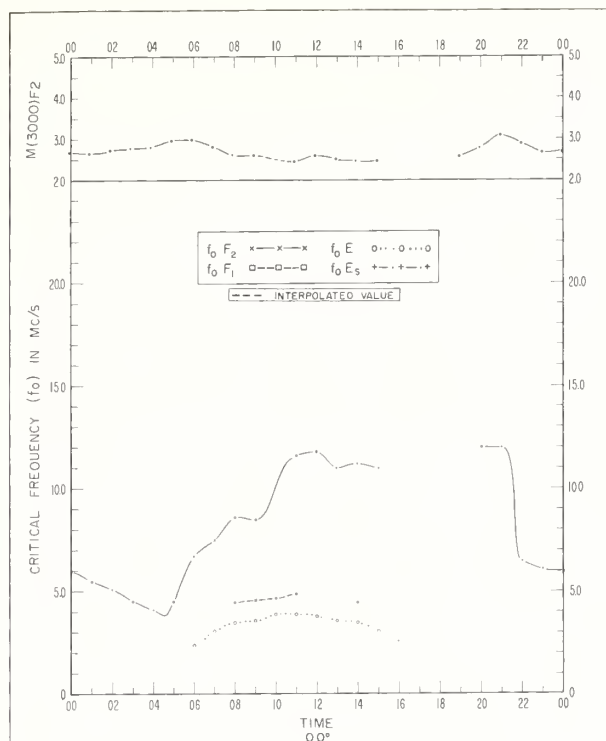


Fig. 29. LEOPOLDVILLE, CONGO  
4°S, 15.2°E

JANUARY 1961

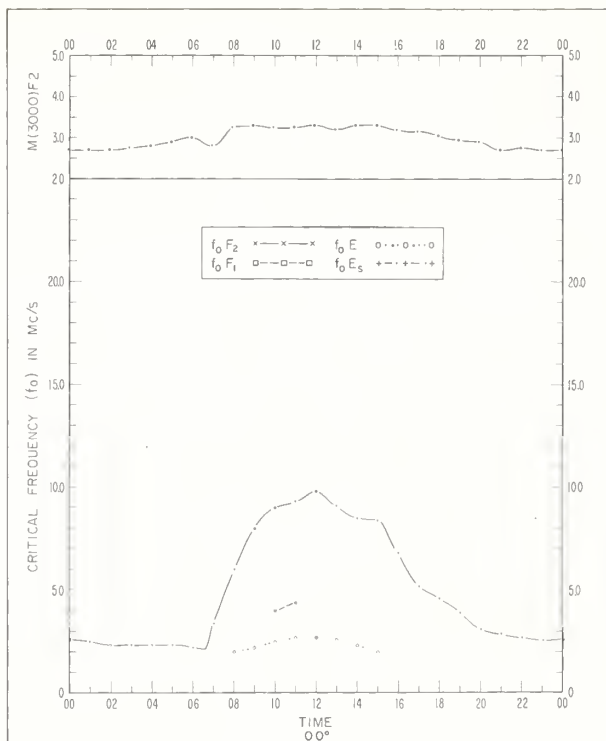


Fig. 30. DE BILT, NETHERLANDS  
52.1°N, 5.2°E

DECEMBER 1960

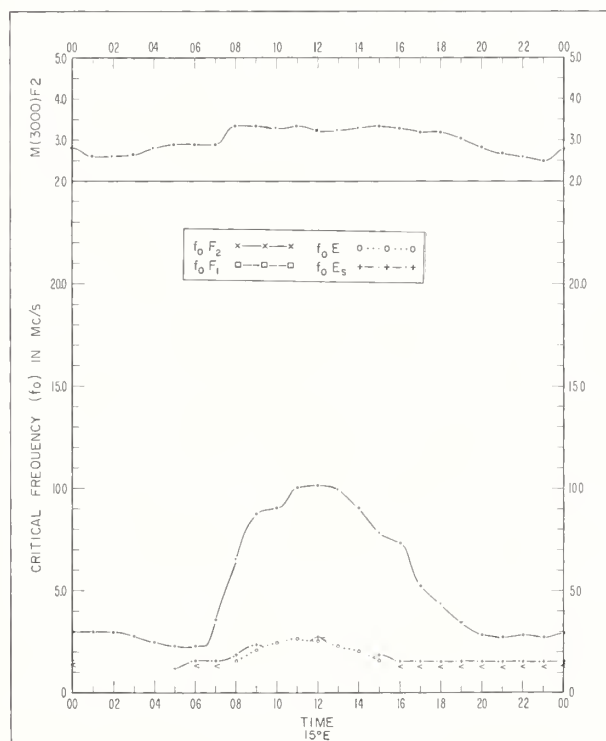


Fig. 31. WARSAW, POLAND  
52.2°N, 21.2°E

DECEMBER 1960

STATION CODE MO YR

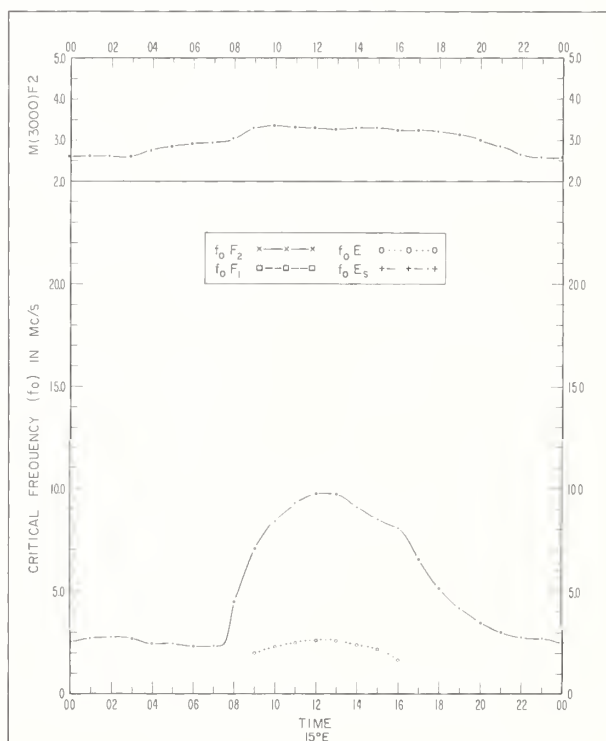
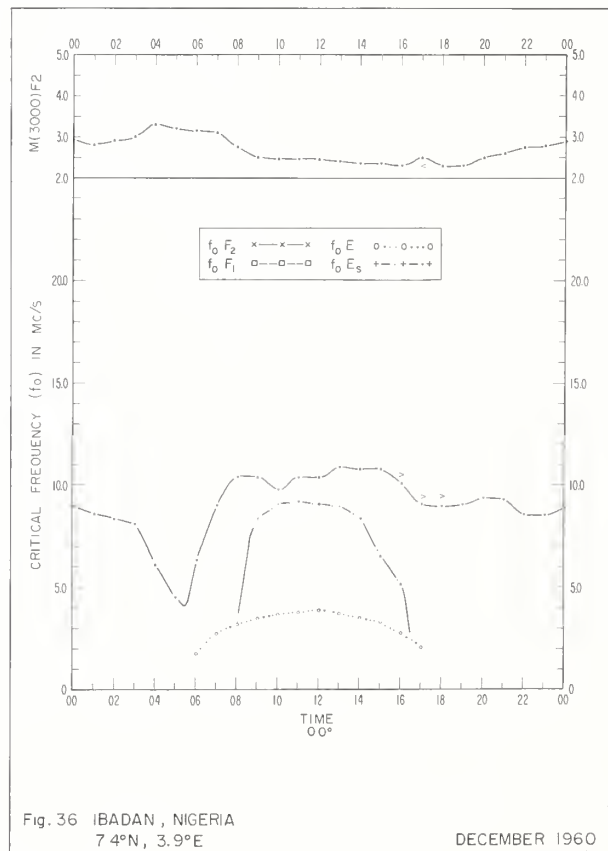
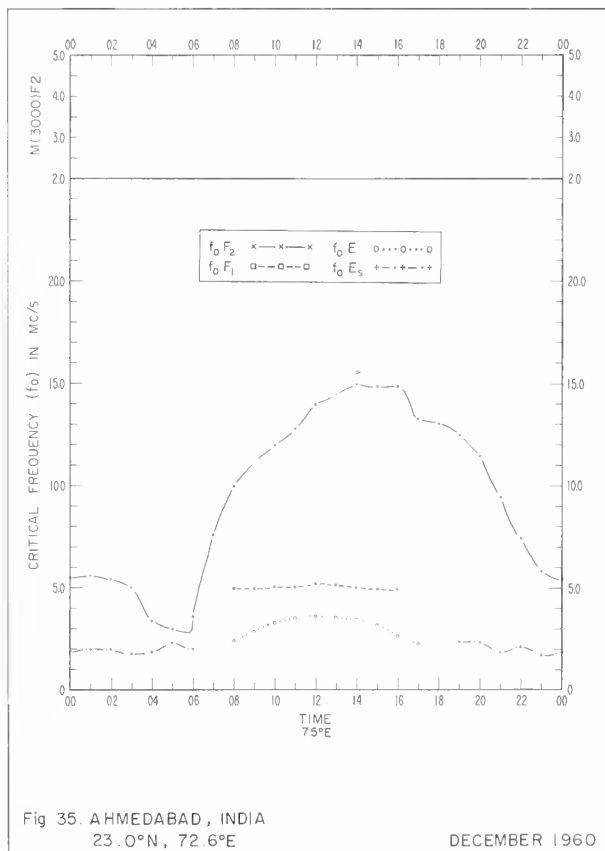
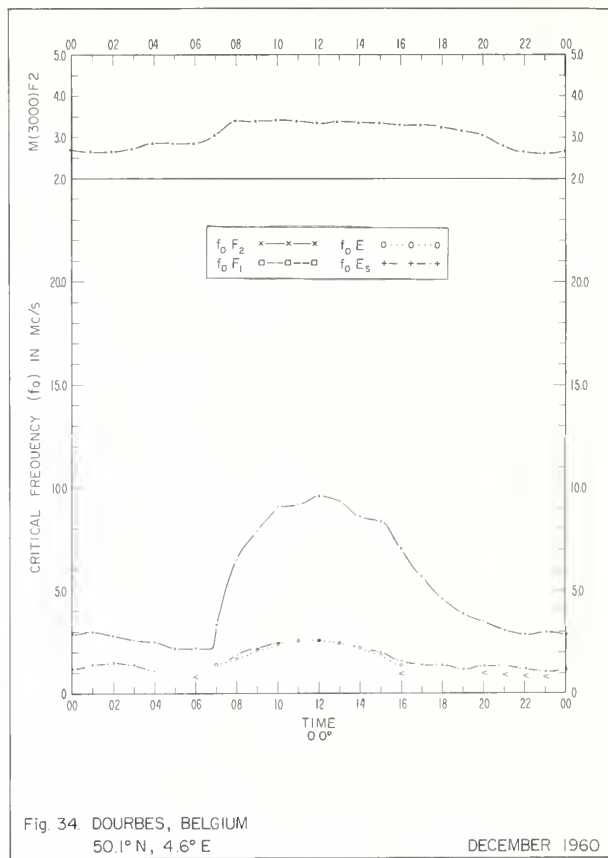
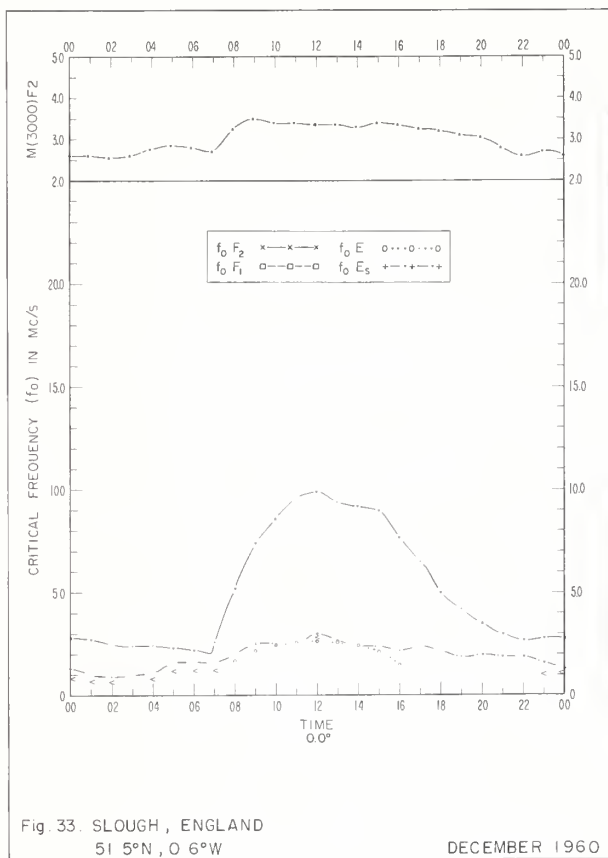


Fig. 32. LINDAU/HARZ, GERMANY  
51.6°N, 10.1°E

DECEMBER 1960

STATION CODE MO YR



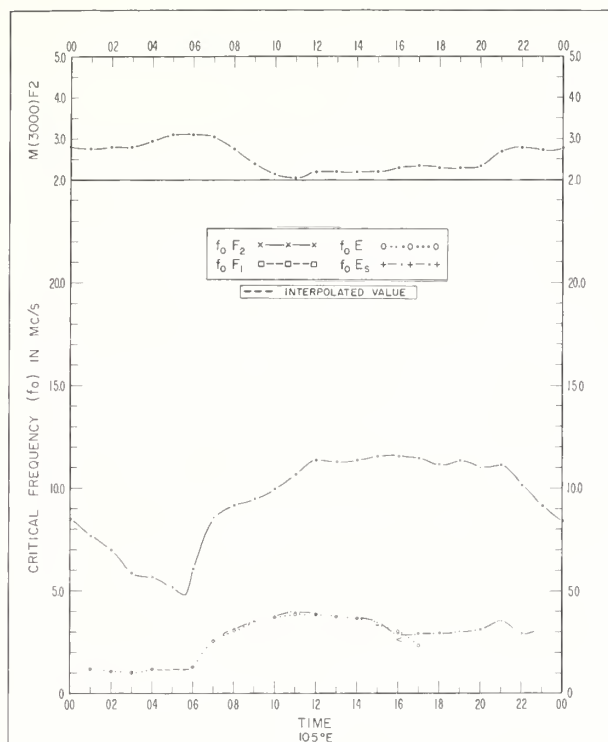


Fig. 37. SINGAPORE, BRITISH MALAYA  
1.3° N, 103.8° E

DECEMBER 1960

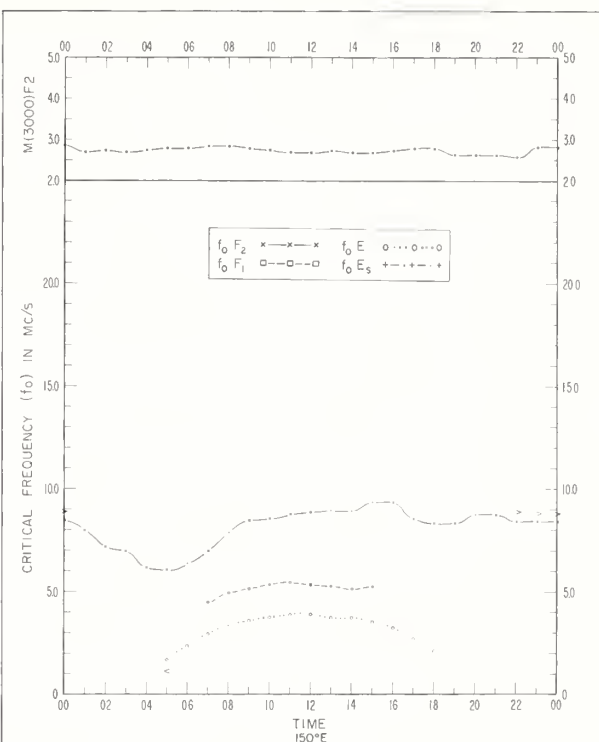


Fig. 38. BRISBANE, AUSTRALIA  
27.5° S, 152.9° E

DECEMBER 1960

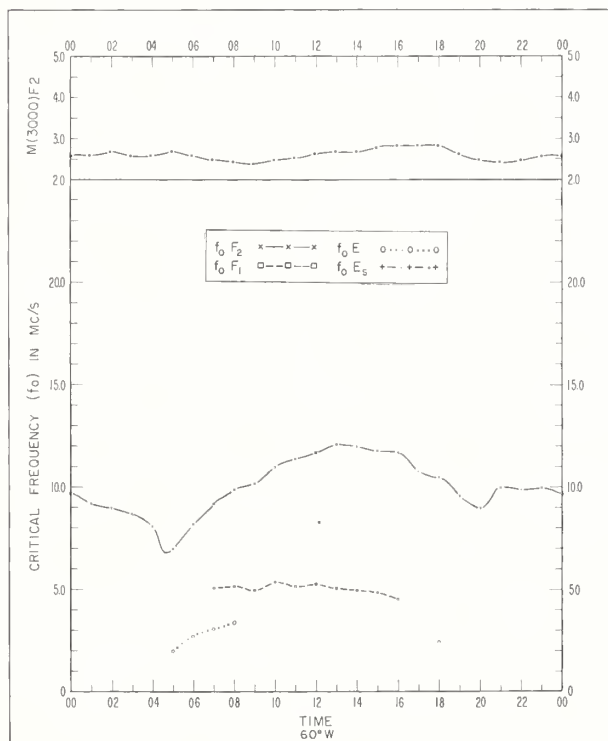


Fig. 39. BUENOS AIRES, ARGENTINA  
34.5° S, 58.5° W

DECEMBER 1960

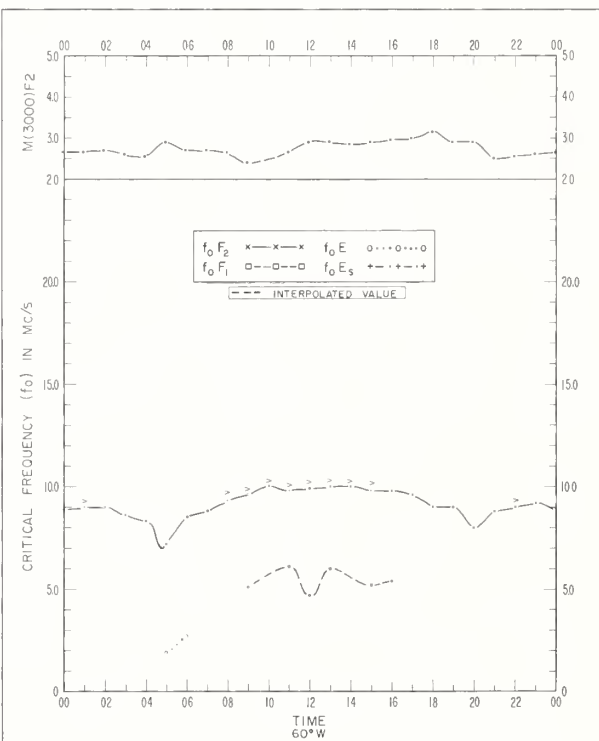


Fig. 40. TRELEW, ARGENTINA  
43.2° S, 65.3° W

DECEMBER 1960

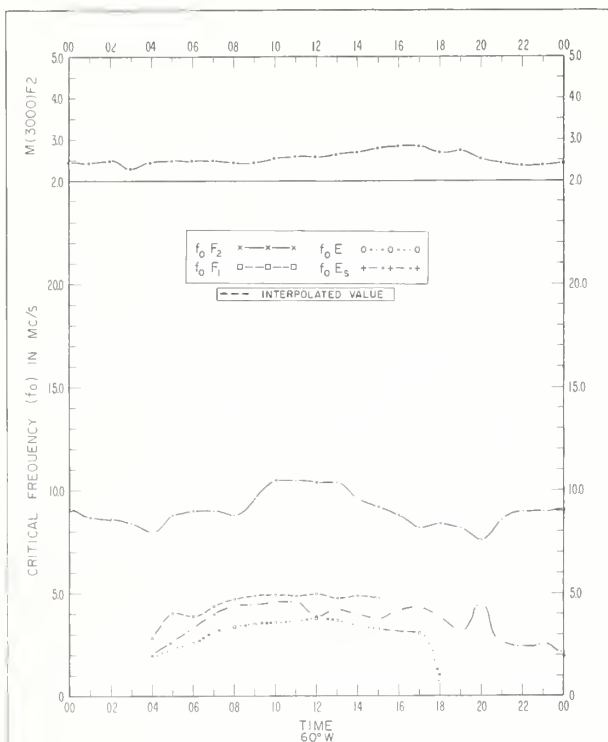


Fig. 41. FALKLAND IS.  
51.7°S, 57.8°W

DECEMBER 1960

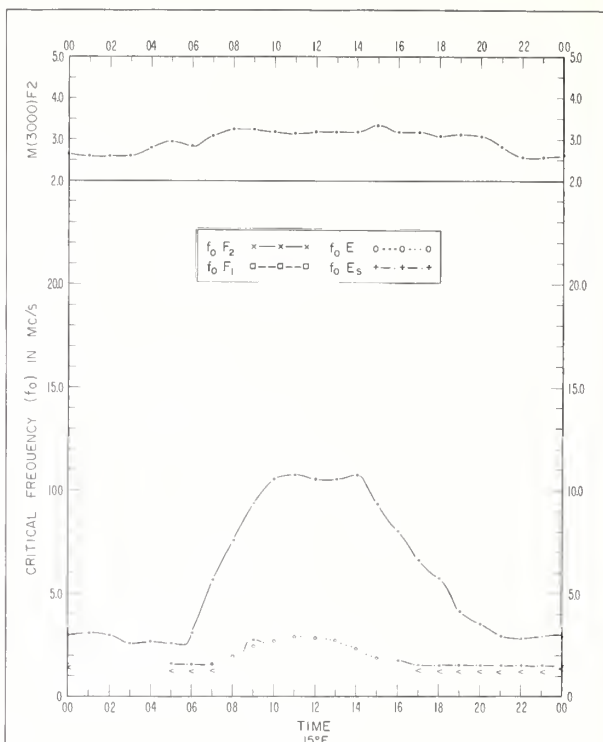


Fig. 42. WARSAW, POLAND  
52.2°N, 21.2°E

NOVEMBER 1960

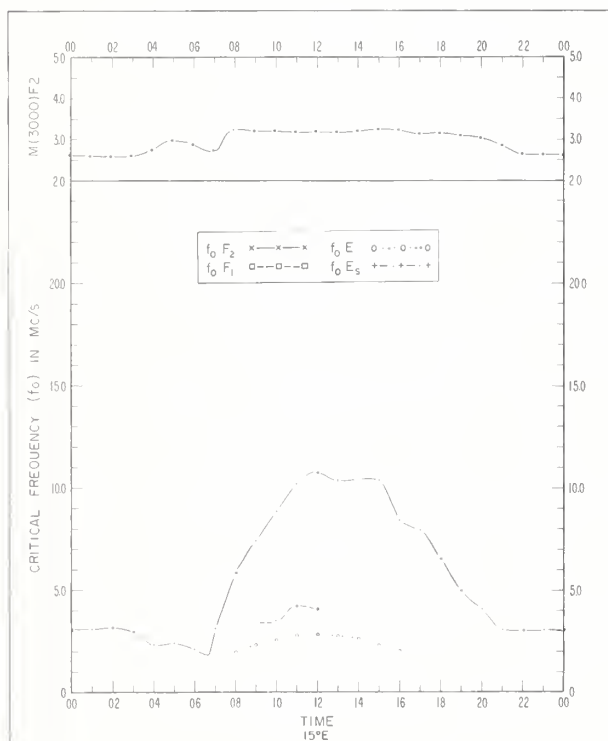


Fig. 43. LINDAU/HARZ, GERMANY  
51.6°N, 10.1°E

NOVEMBER 1960

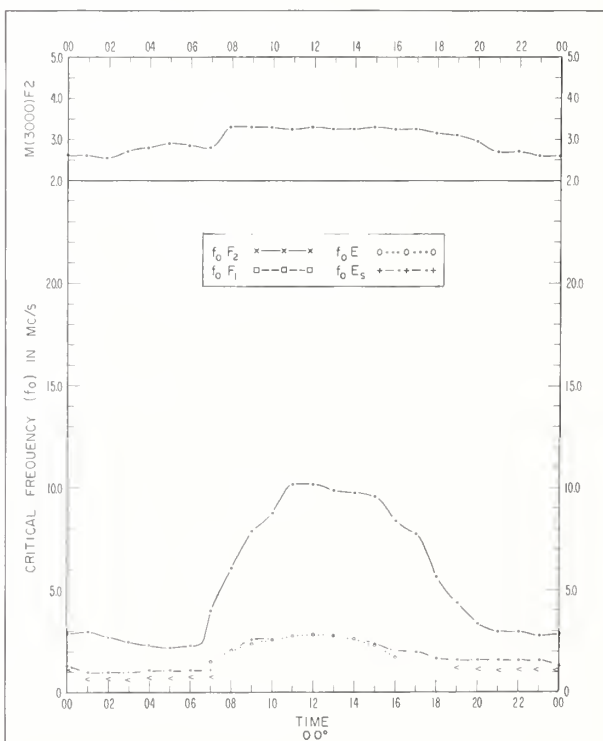


Fig. 44. SLOUGH, ENGLAND  
51.5°N, 0.6°W

NOVEMBER 1960

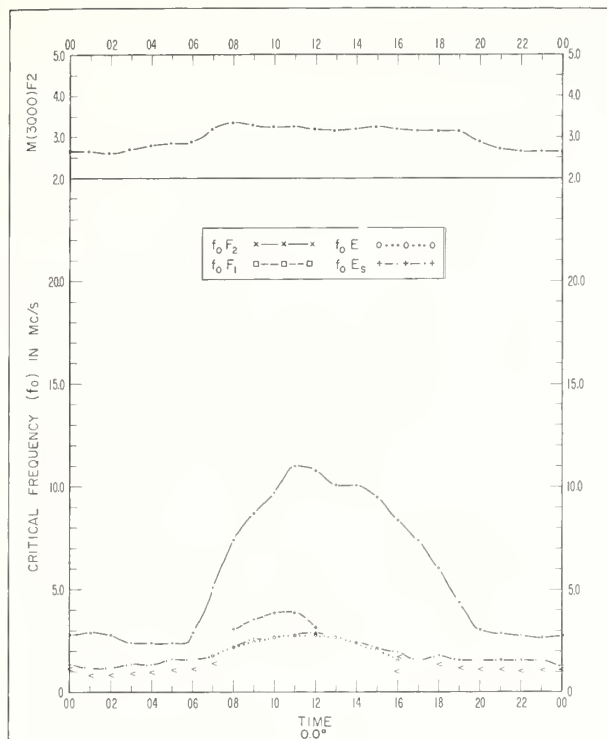


Fig. 45. DOURBES, BELGIUM  
50.1°N, 4 6°E

NOVEMBER 1960

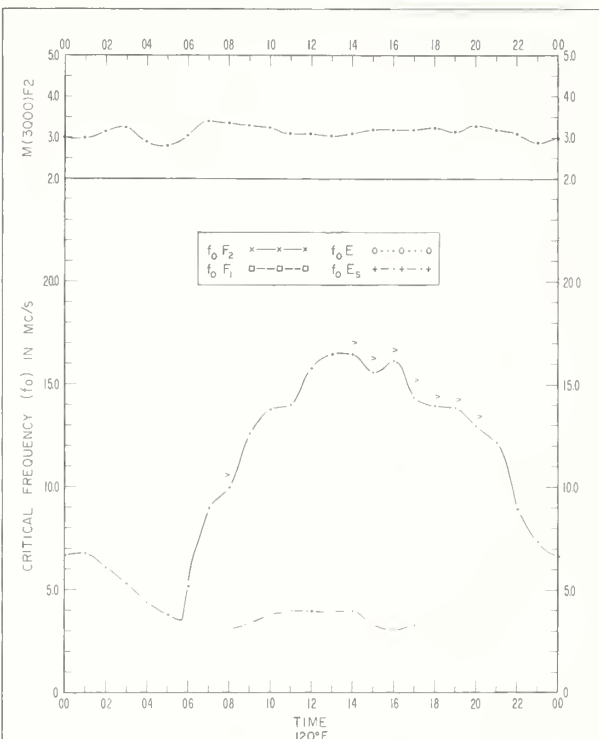


Fig 46 FORMOSA, CHINA  
25 0°N, 121 5°E

NOVEMBER 1960

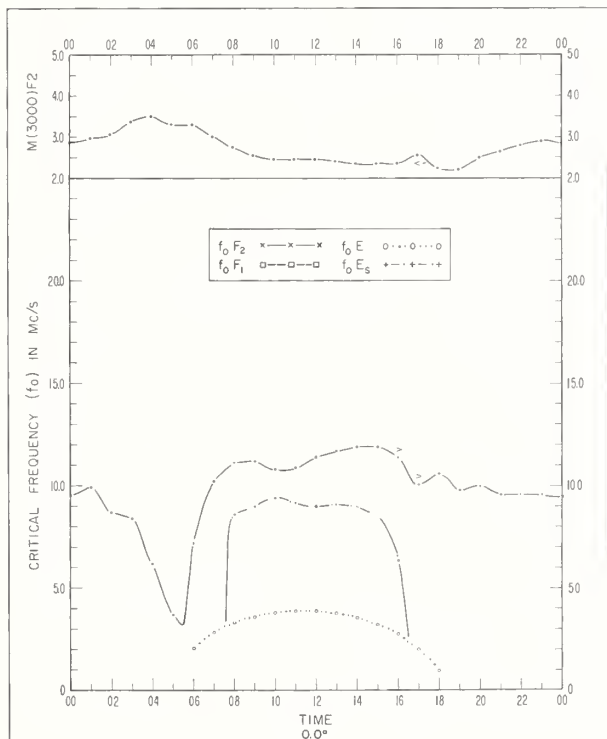


Fig 47. IBADAN, NIGERIA  
7.4°N, 3.9°E

NOVEMBER 1960

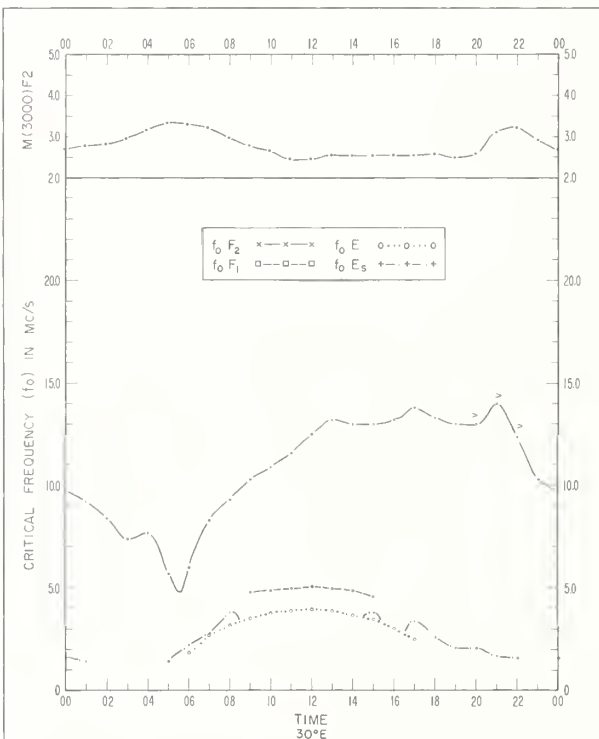
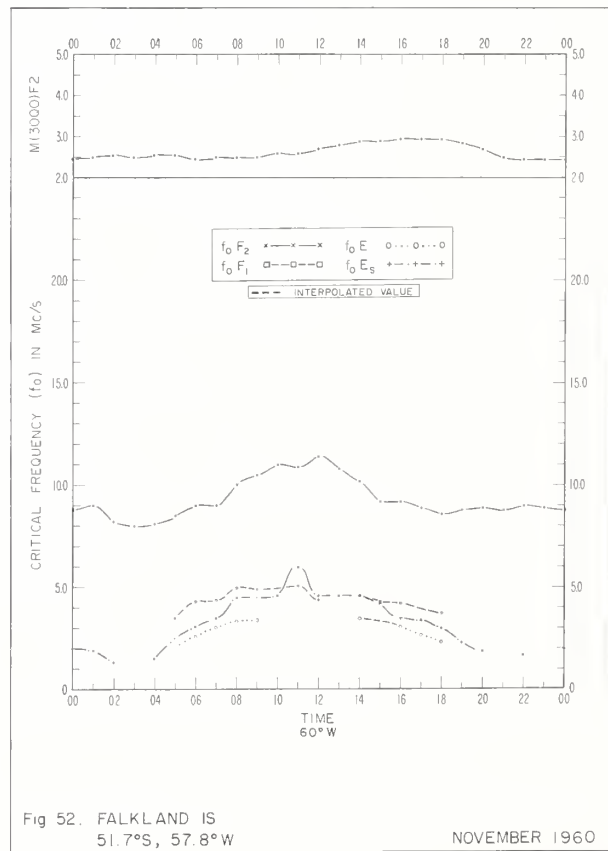
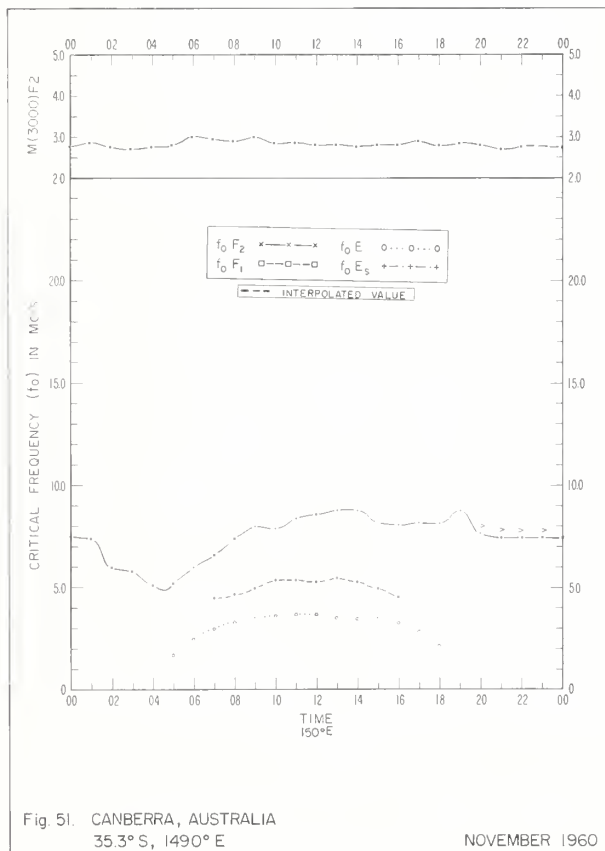
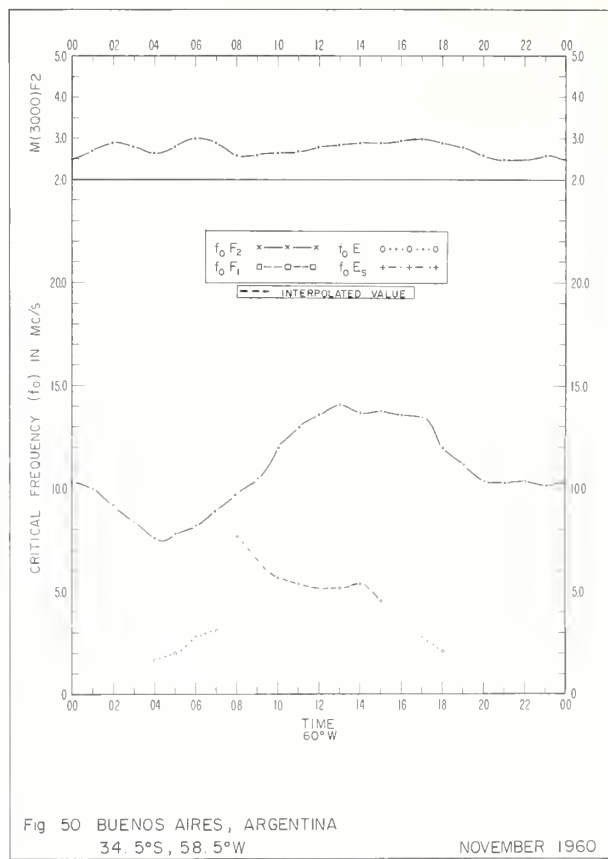
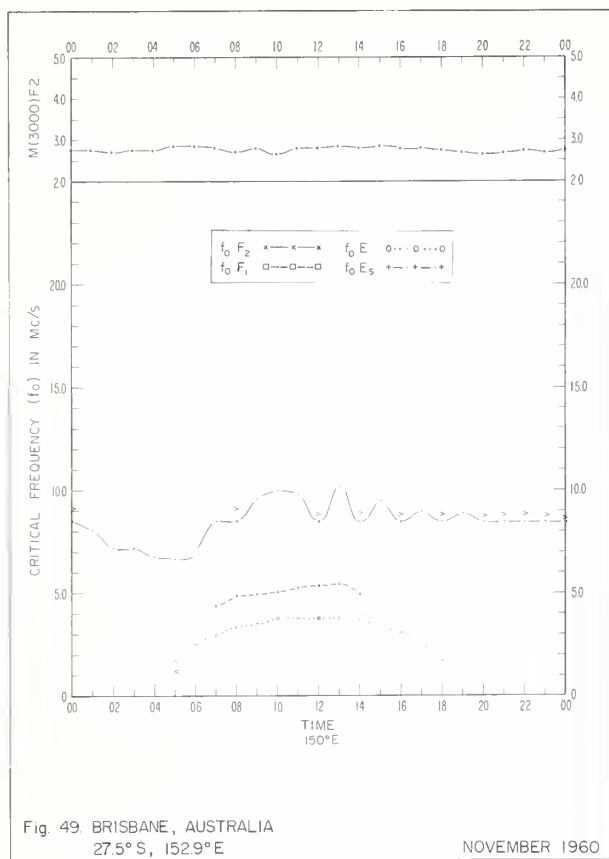
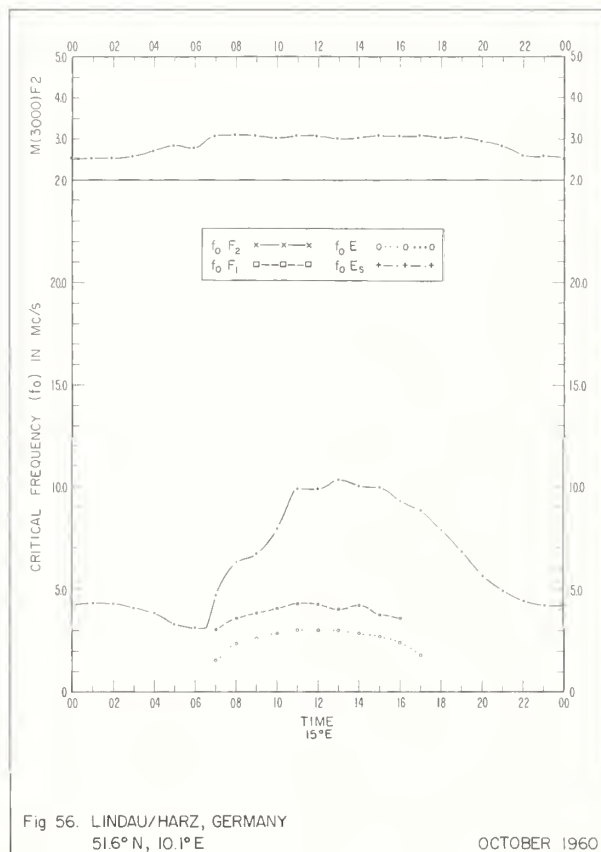
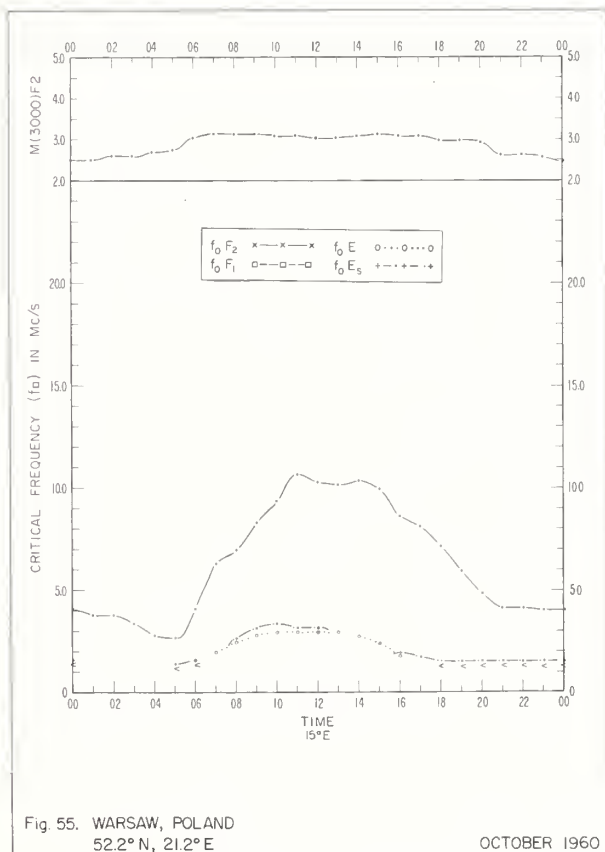
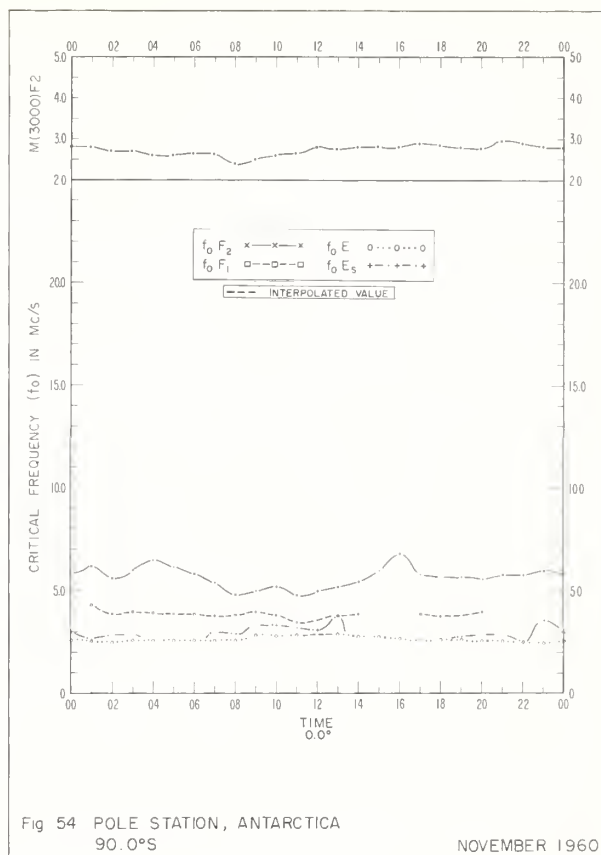
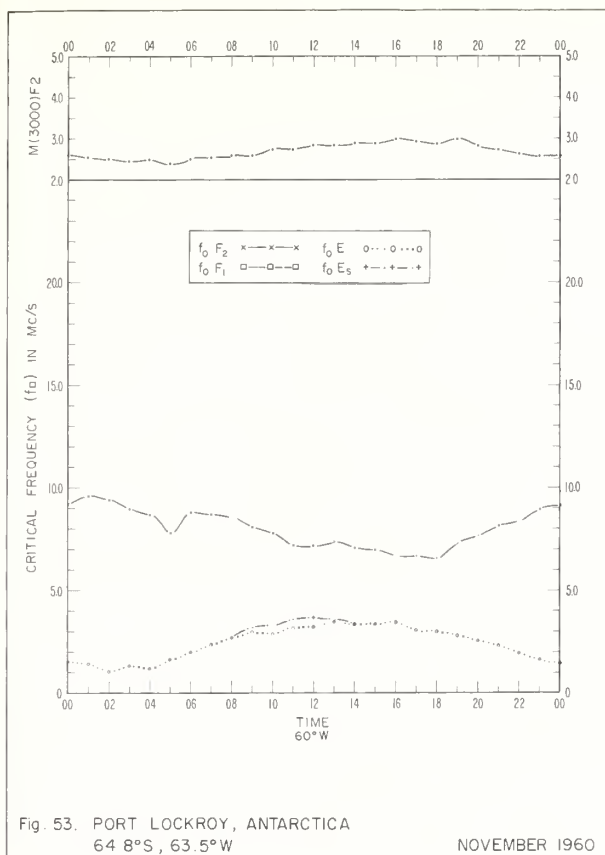


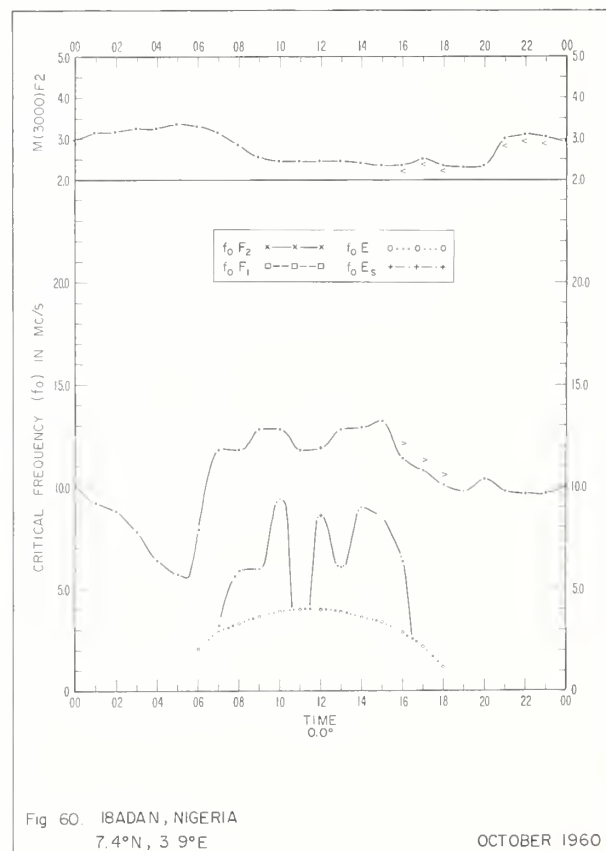
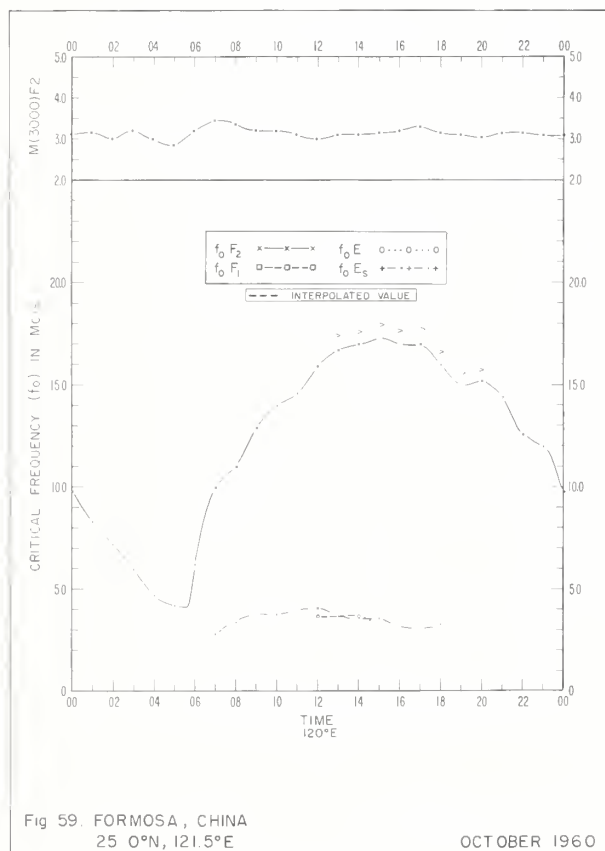
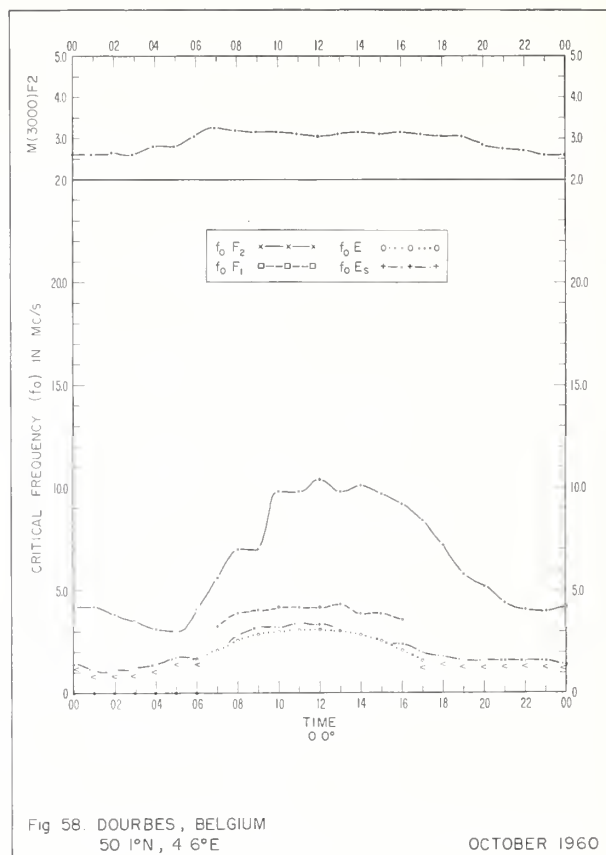
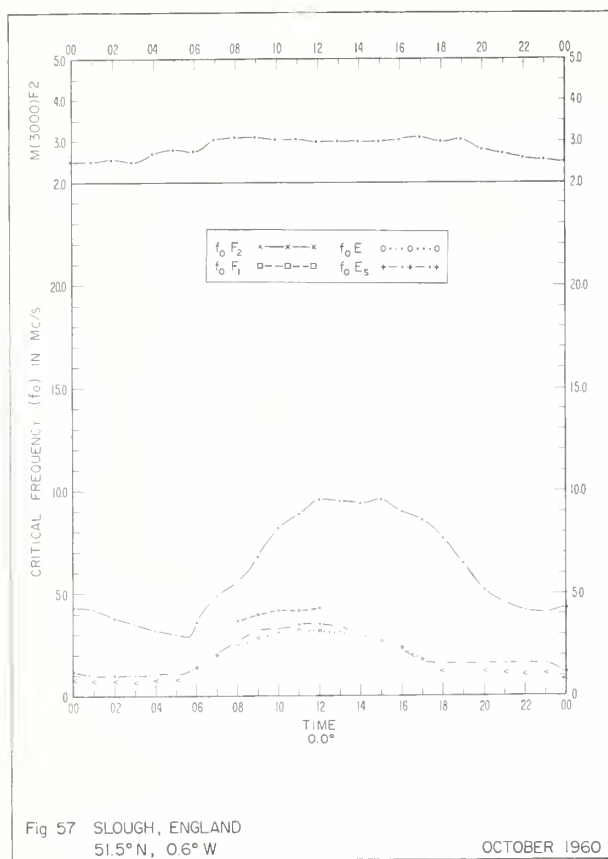
Fig 48. LWIRO, CONGO  
2.3°S, 28.8°E

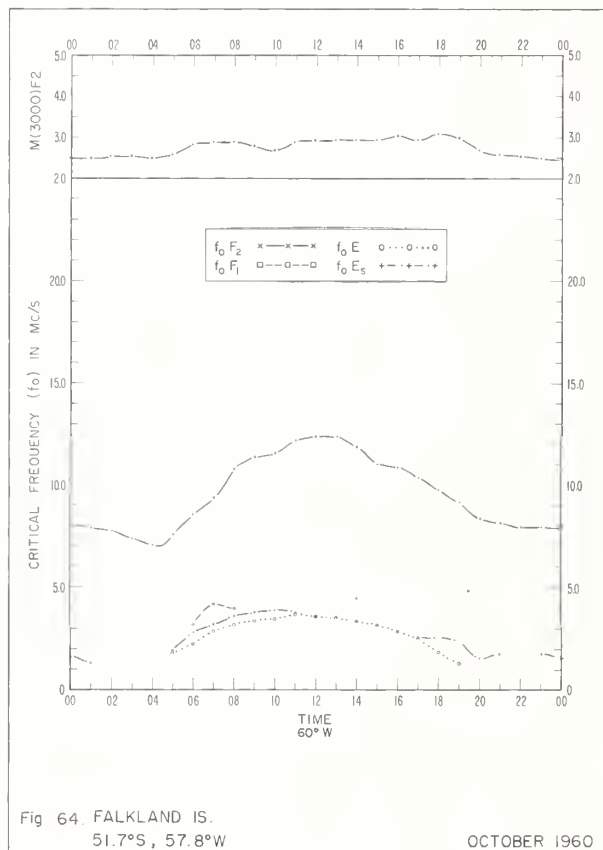
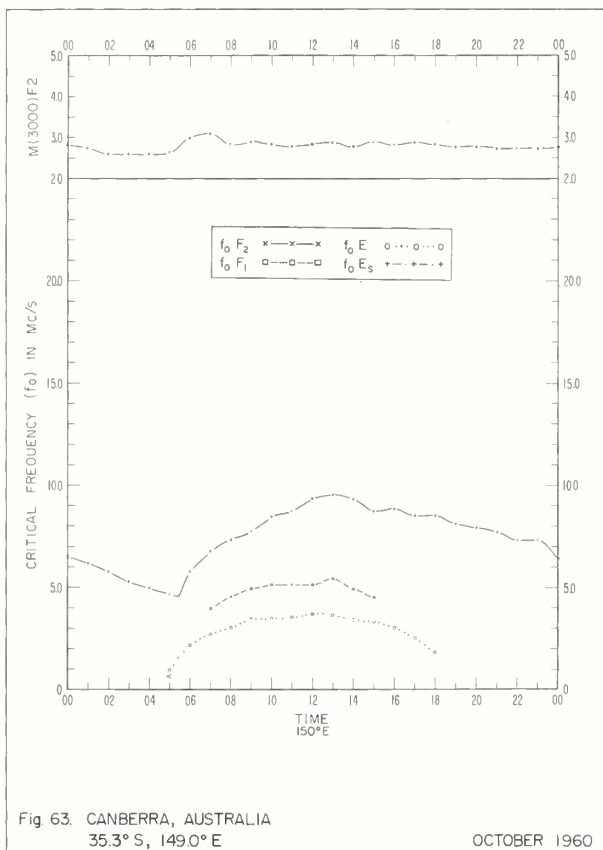
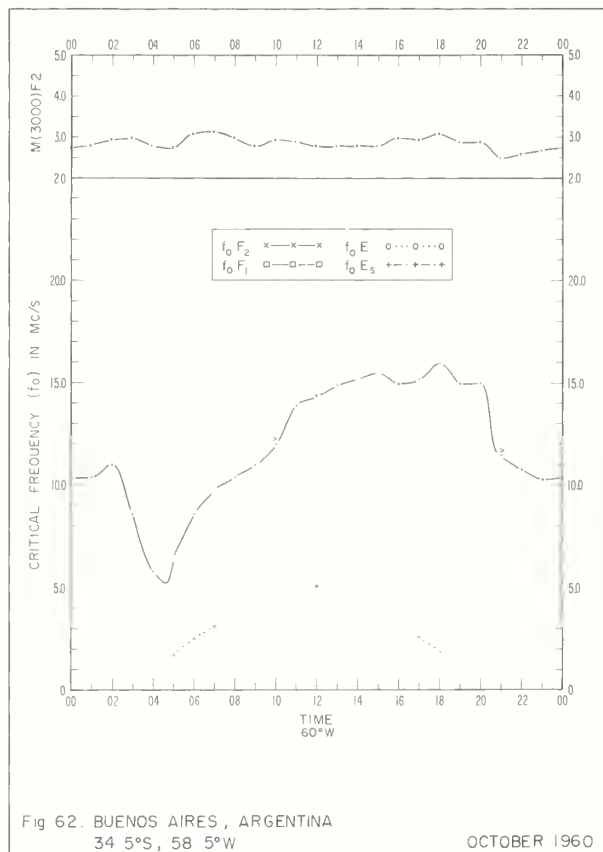
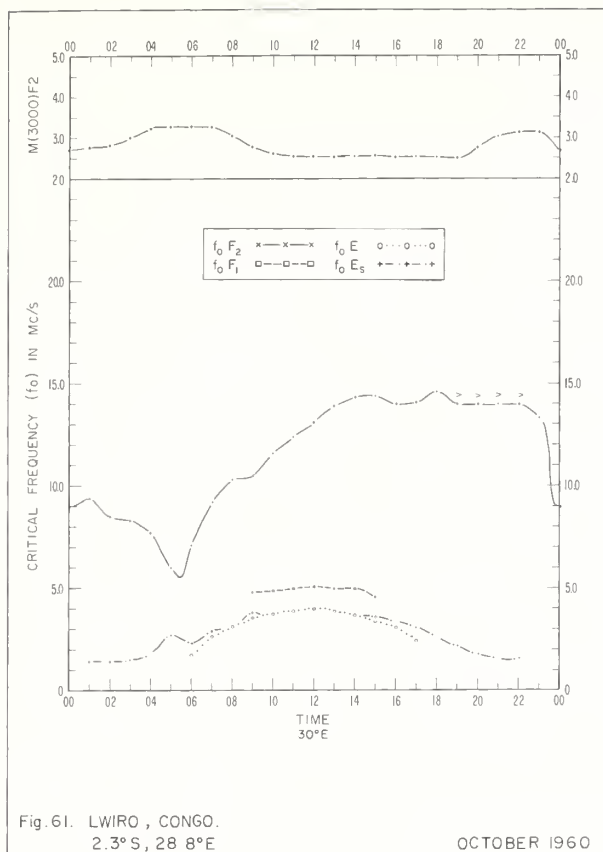
NOVEMBER 1960

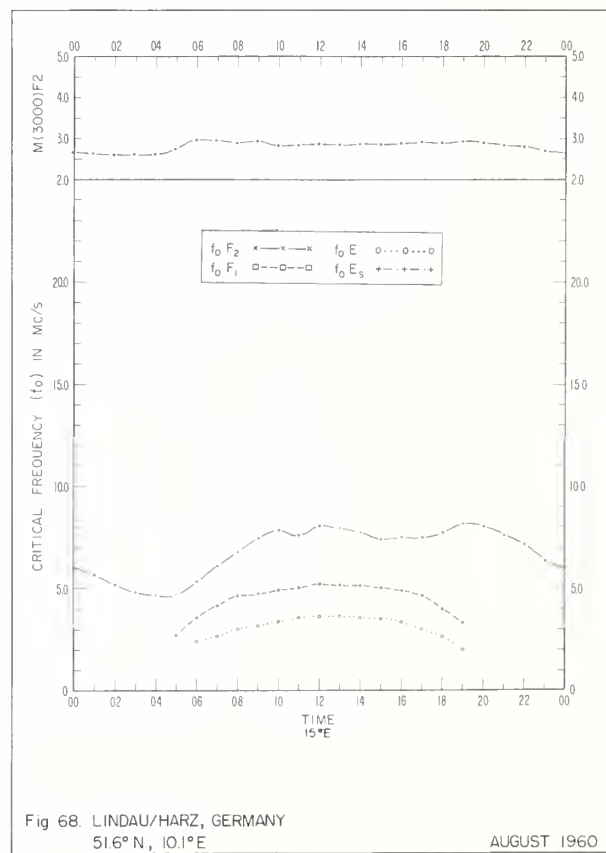
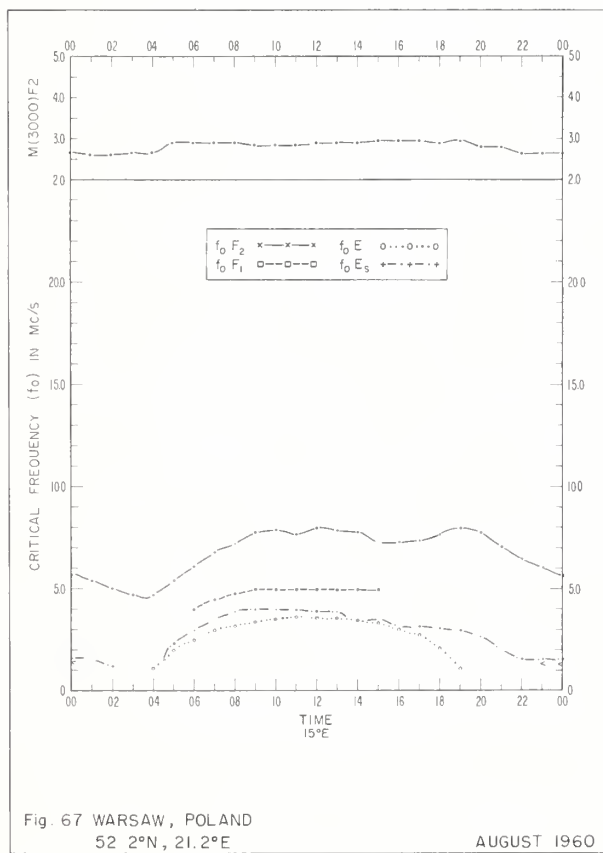
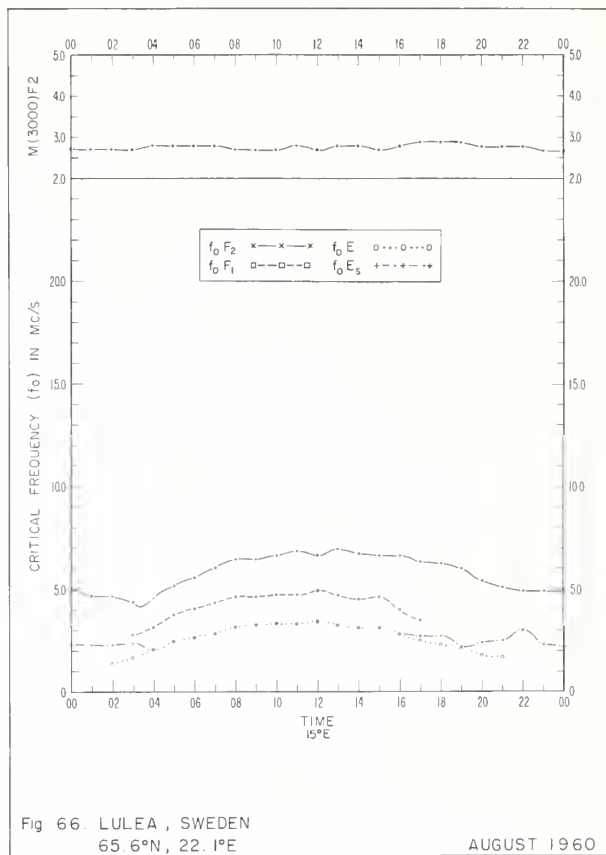
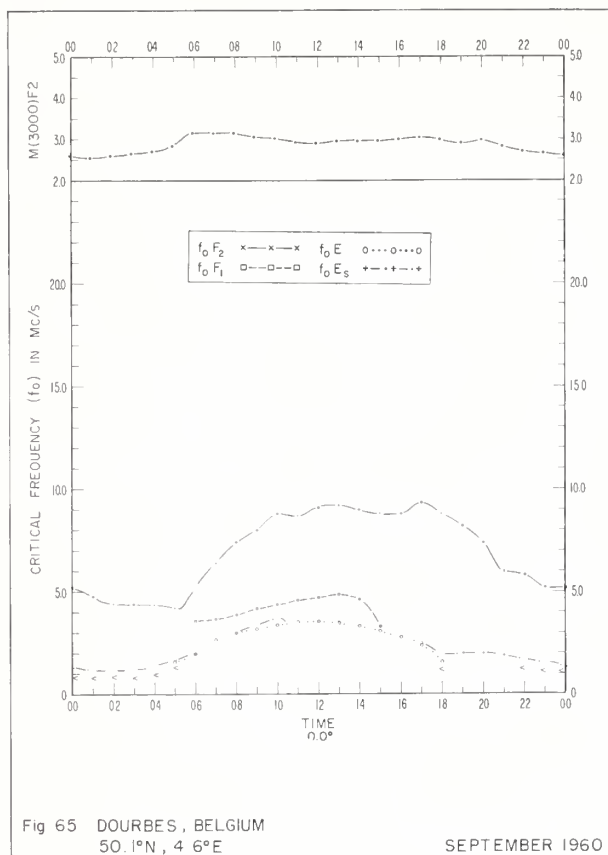


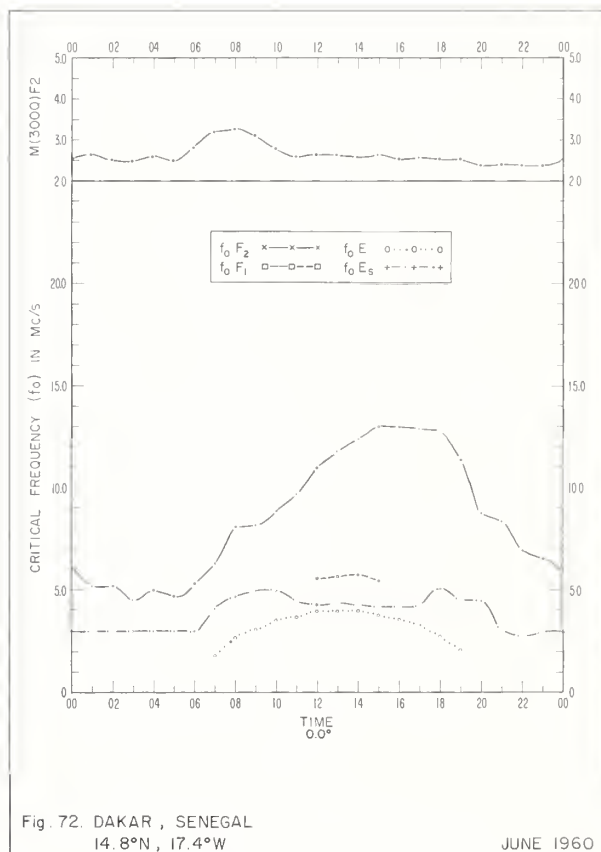
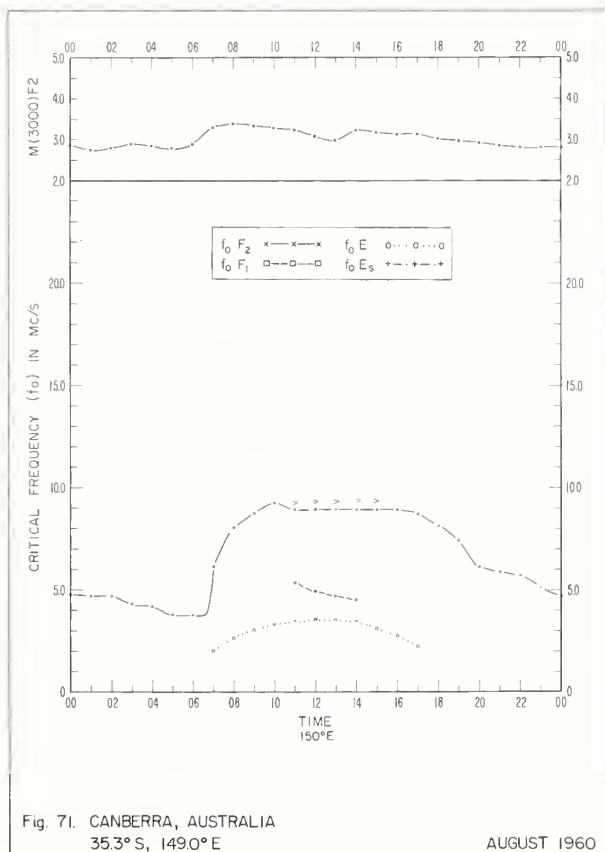
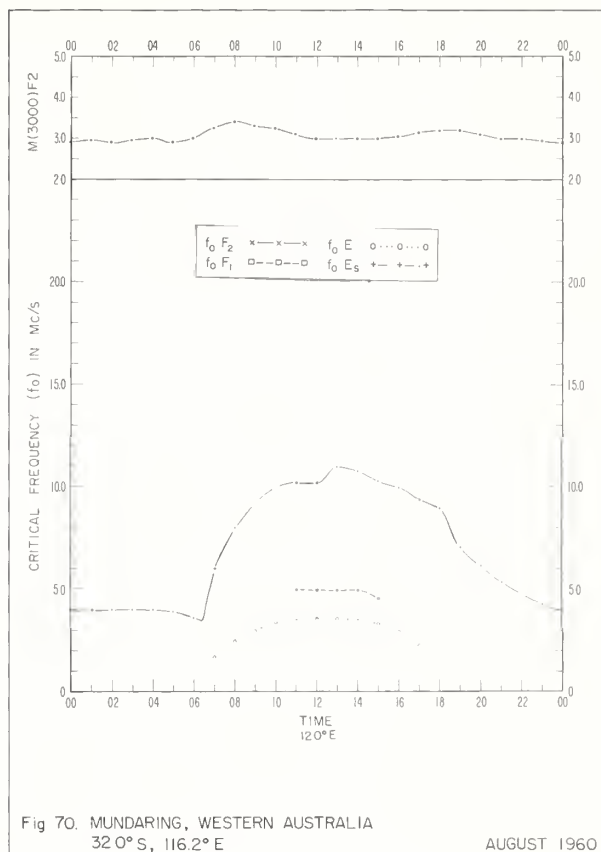
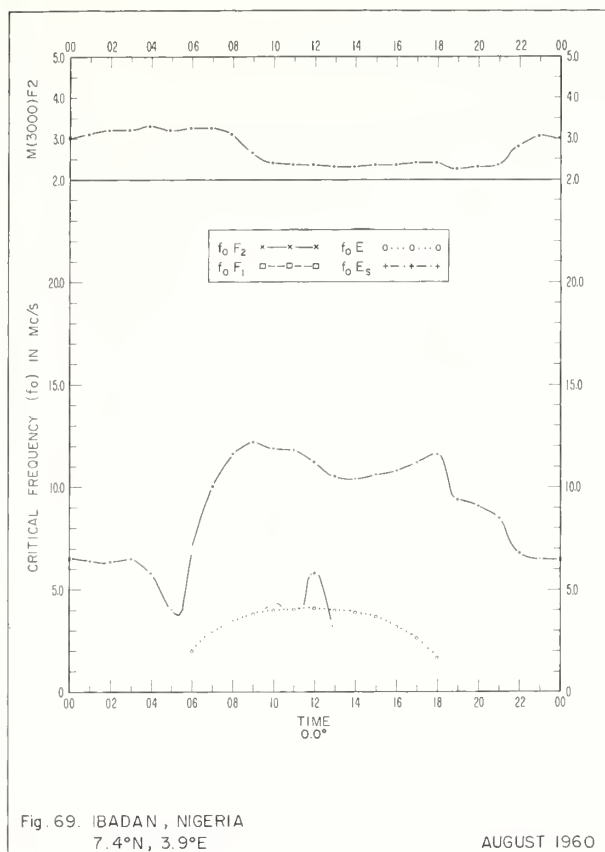












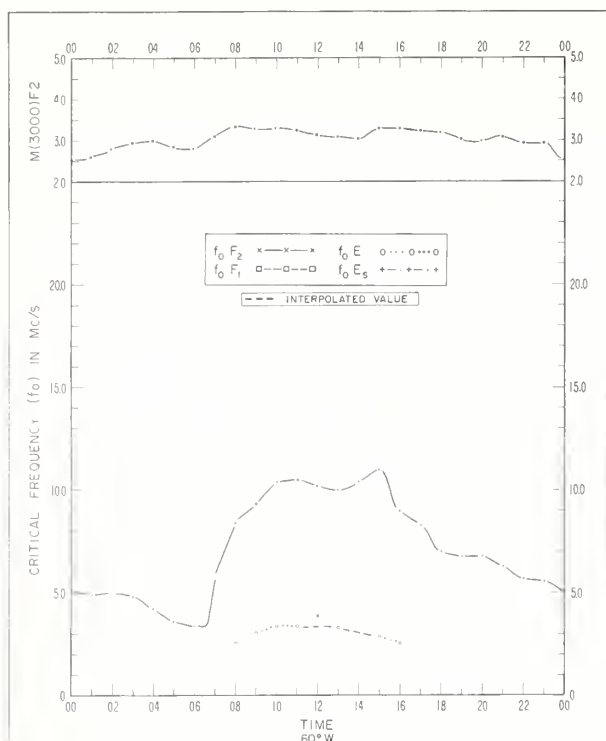


Fig 73 BUENOS AIRES, ARGENTINA  
34 5°S, 5B 5°W

JUNE 1960

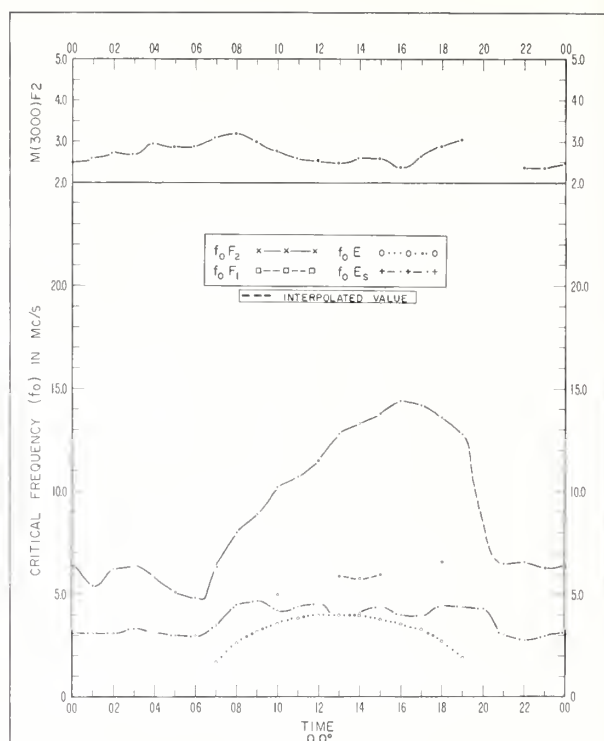


Fig 74 DAKAR, SENEGAL  
14 8°N, 17 4°W

MAY 1960

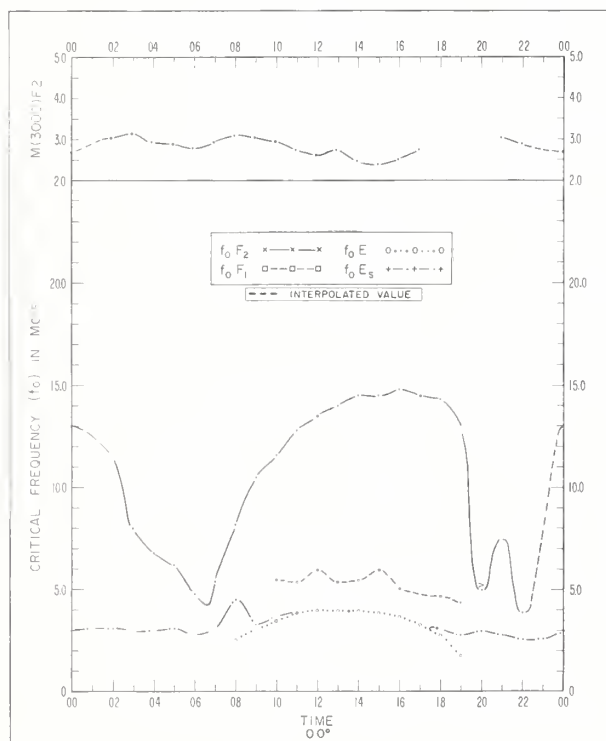


Fig 75. DAKAR, SENEGAL  
14 8°N, 17.4°W

APRIL 1960

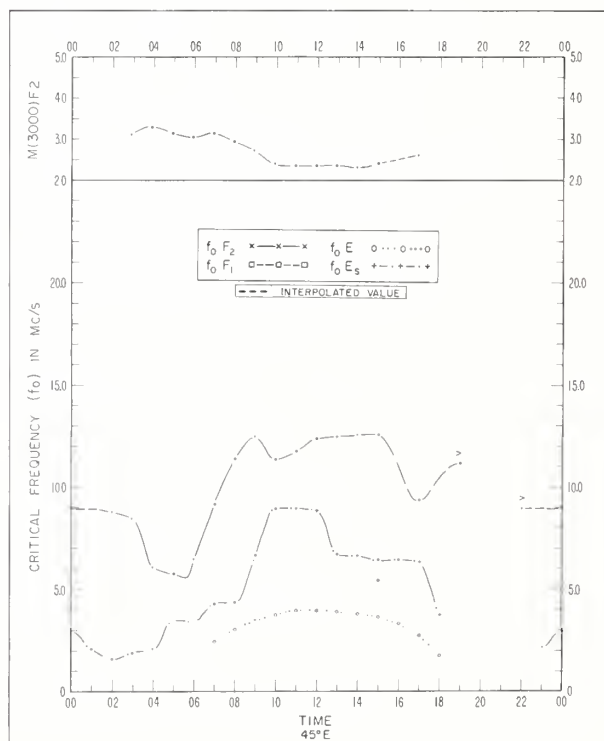
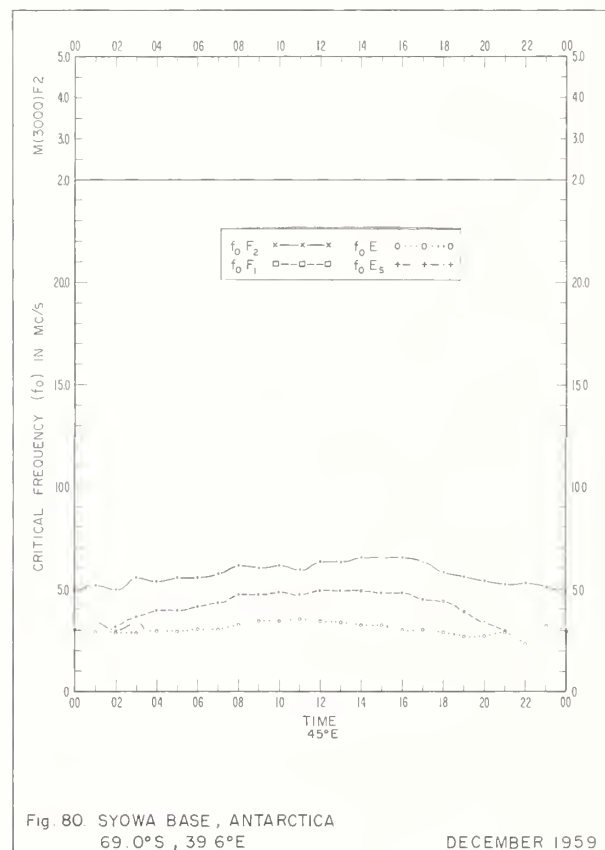
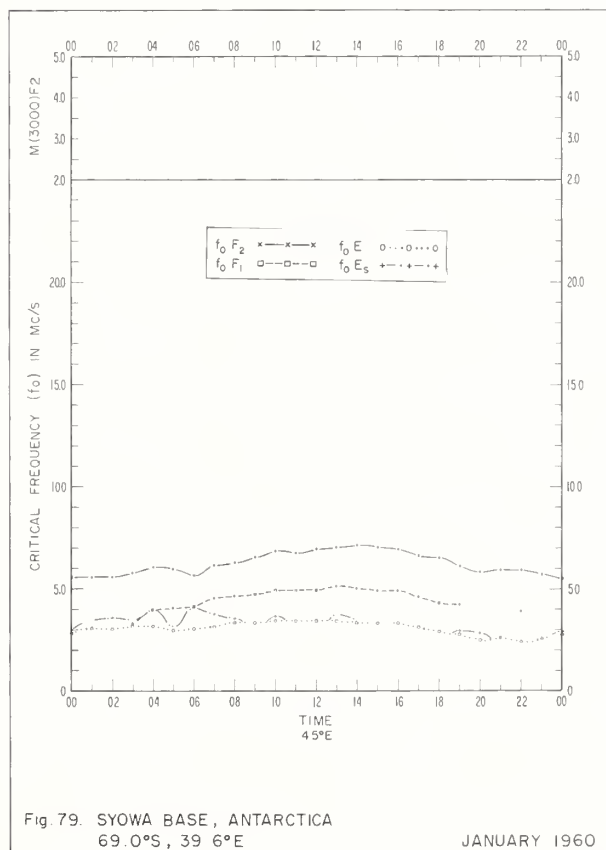
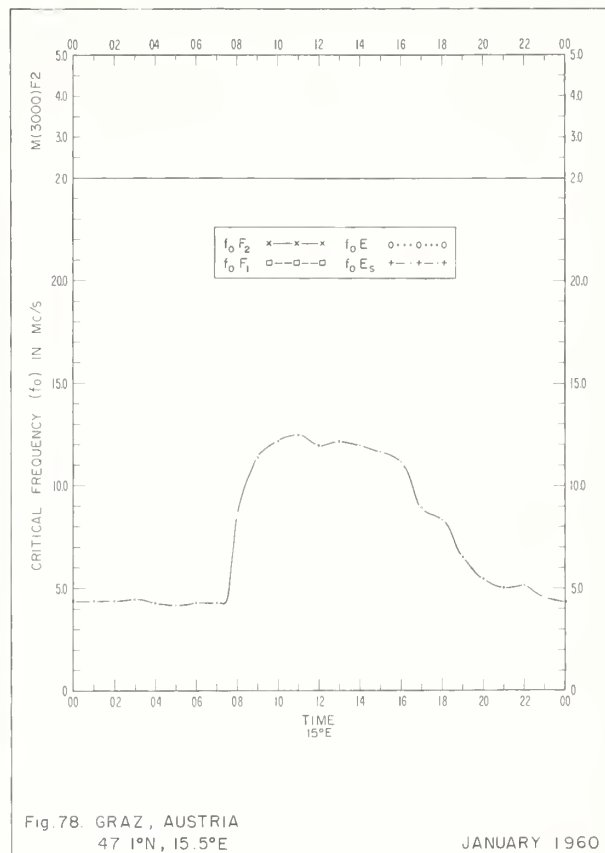
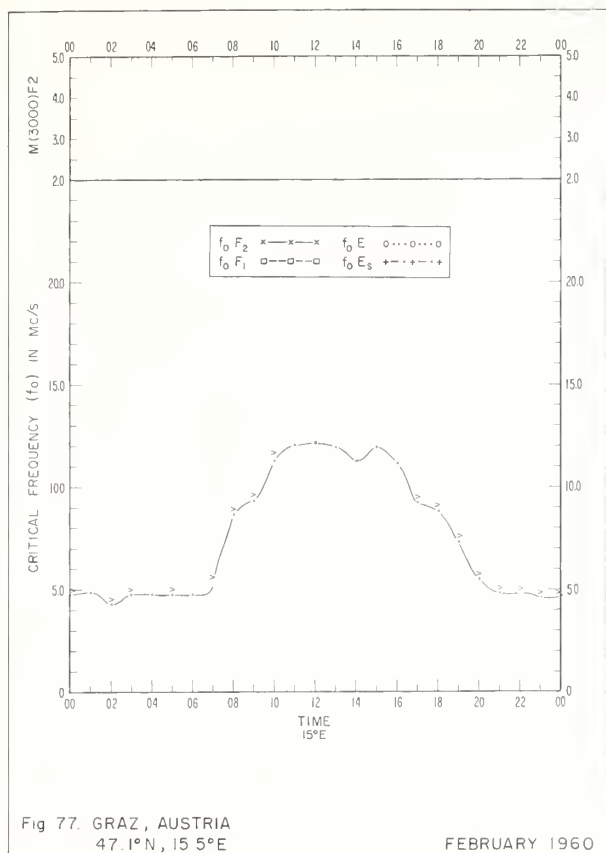
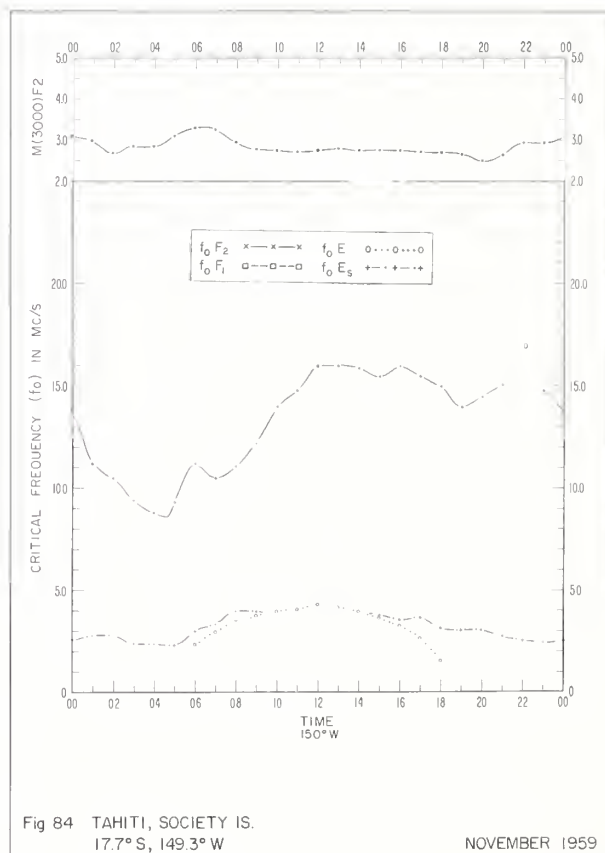
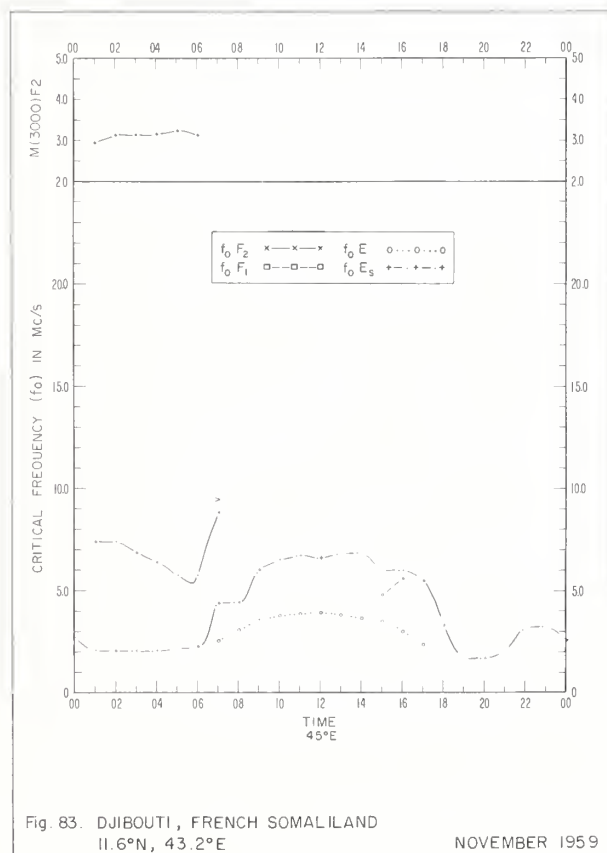
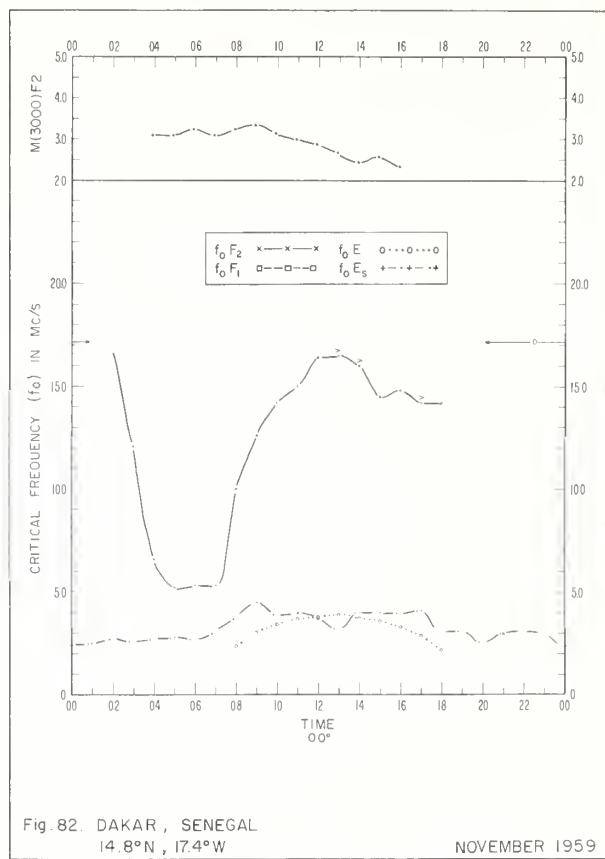
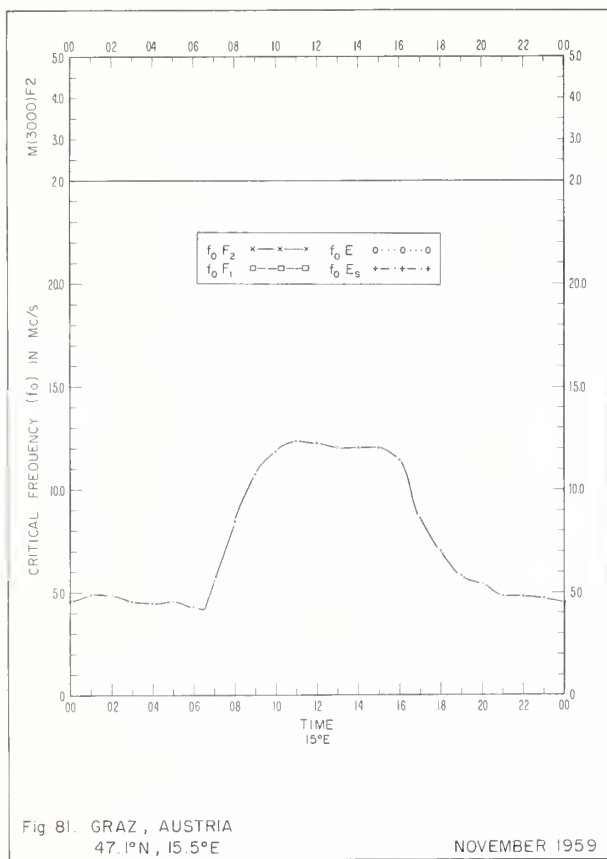


Fig 76. DJIBOUTI, FRENCH SOMALILAND  
11.6°N, 43.2°E

APRIL 1960







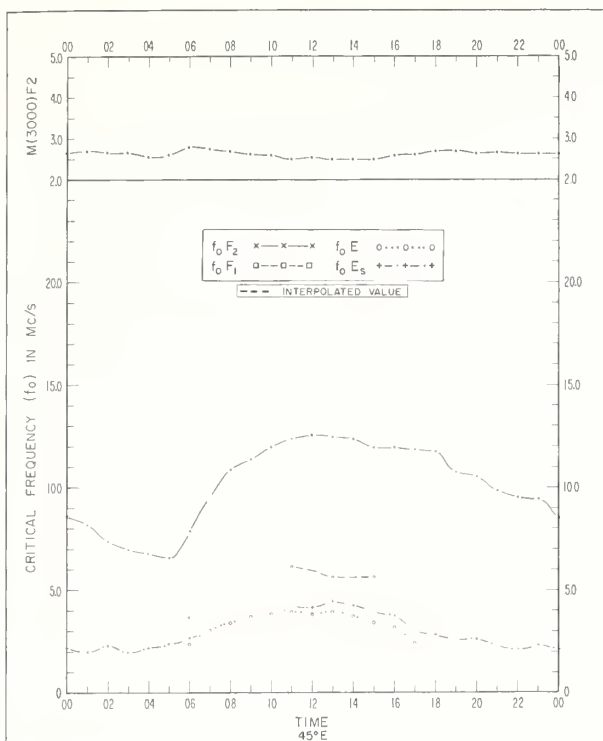


Fig. 85. TANANARIVE, MALAGASY REPUBLIC  
18.8°S, 47.5°E

NOVEMBER 1959

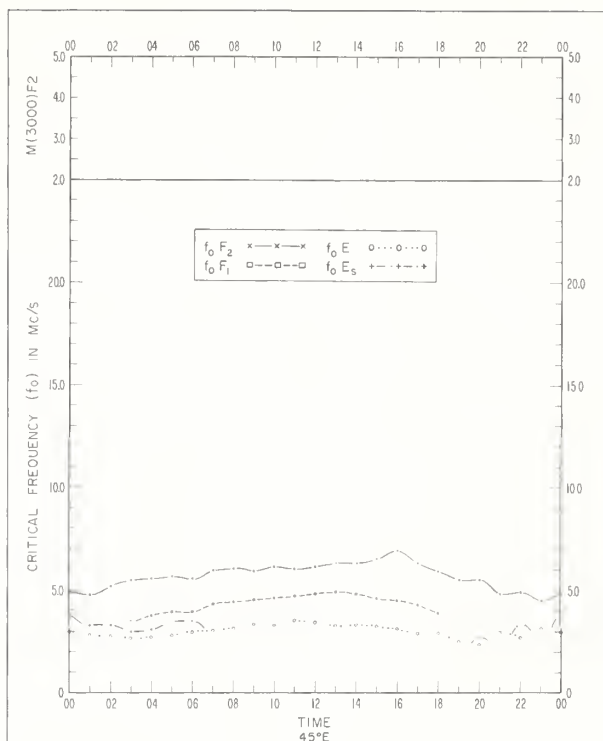


Fig. 86. SYOWA BASE, ANTARCTICA  
69.0°S, 39.6°E

NOVEMBER 1959

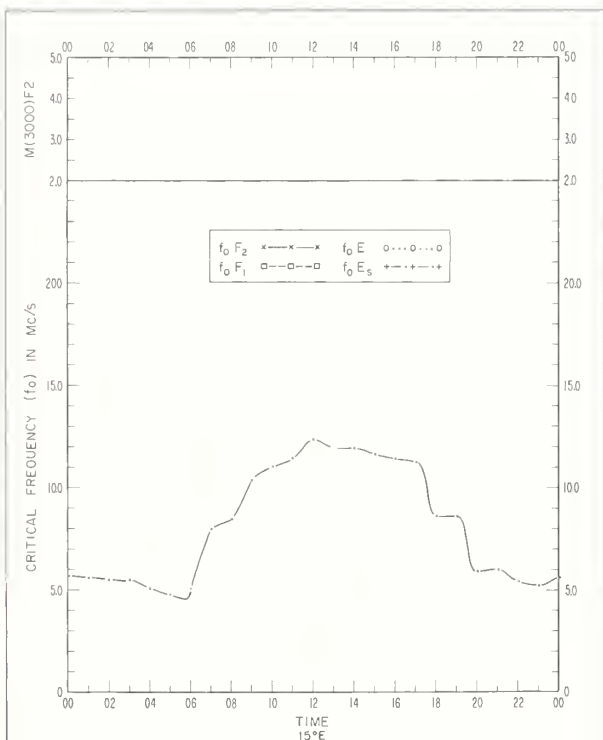


Fig. 87. GRAZ, AUSTRIA  
47.1°N, 15.5°E

OCTOBER 1959

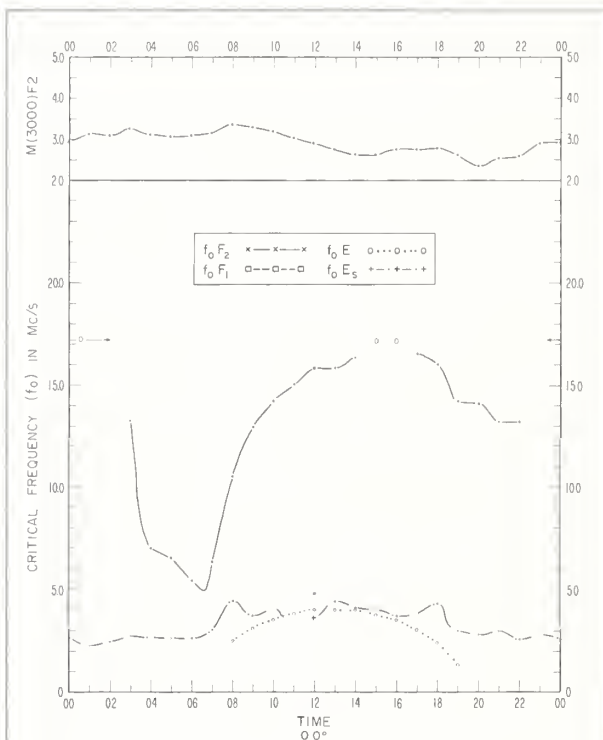


Fig. 88. DAKAR, SENEGAL  
14.8°N, 17.4°W

OCTOBER 1959

STATION CODE

MO.

YR

STATION CODE

MO.

YR

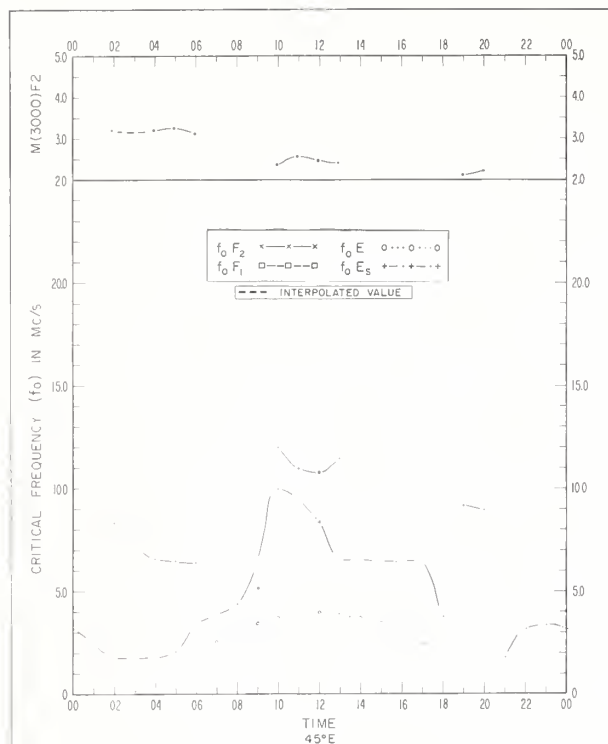


Fig 89 DJIBOUTI, FRENCH SOMALILAND  
11°N, 43°E

OCTOBER 1959

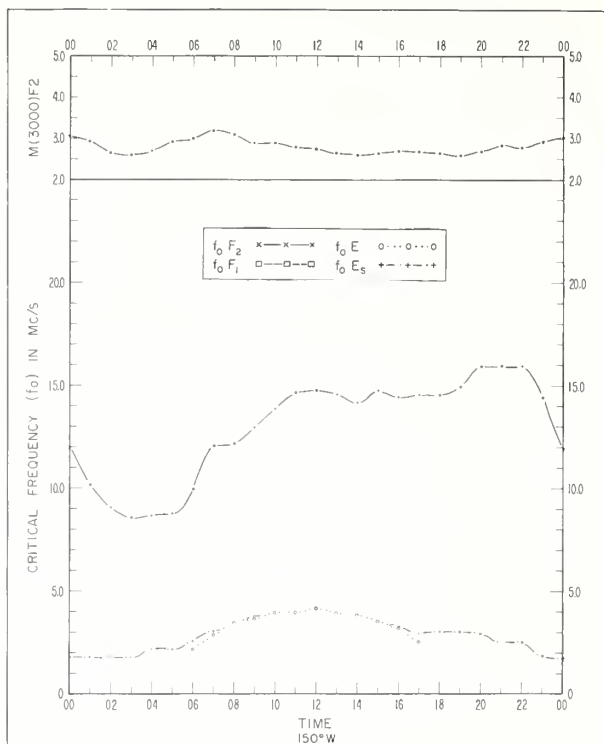


Fig 90. TAHITI, SOCIETY IS.  
17.7°S, 149.3°W

OCTOBER 1959

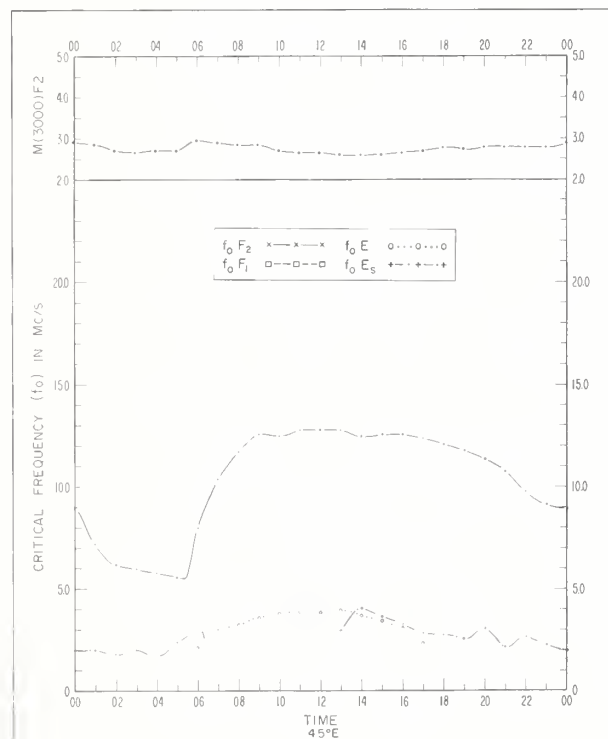


Fig 91. TANANARIVE, MALAGASY REPUBLIC  
18.8°S, 47.5°E

OCTOBER 1959

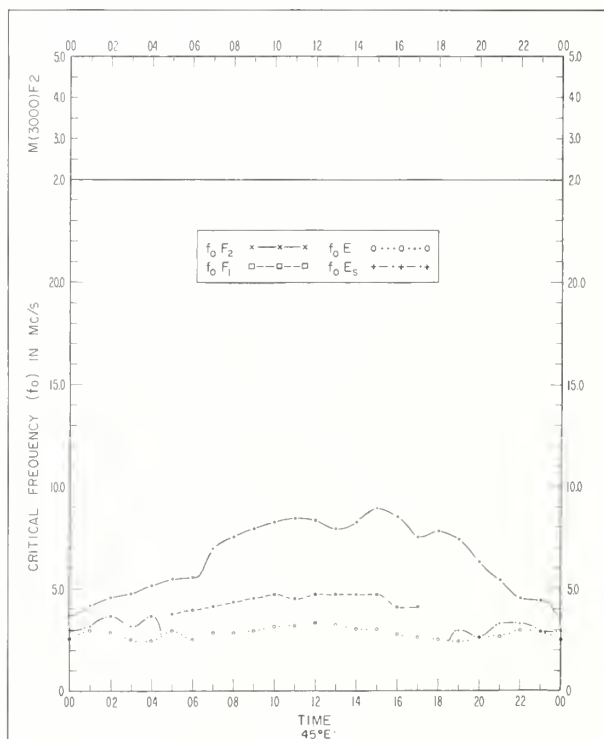
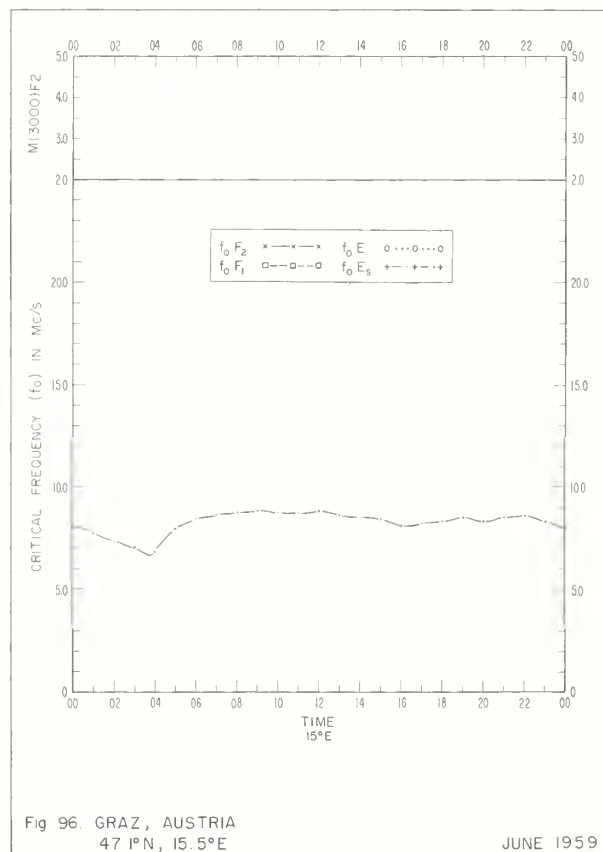
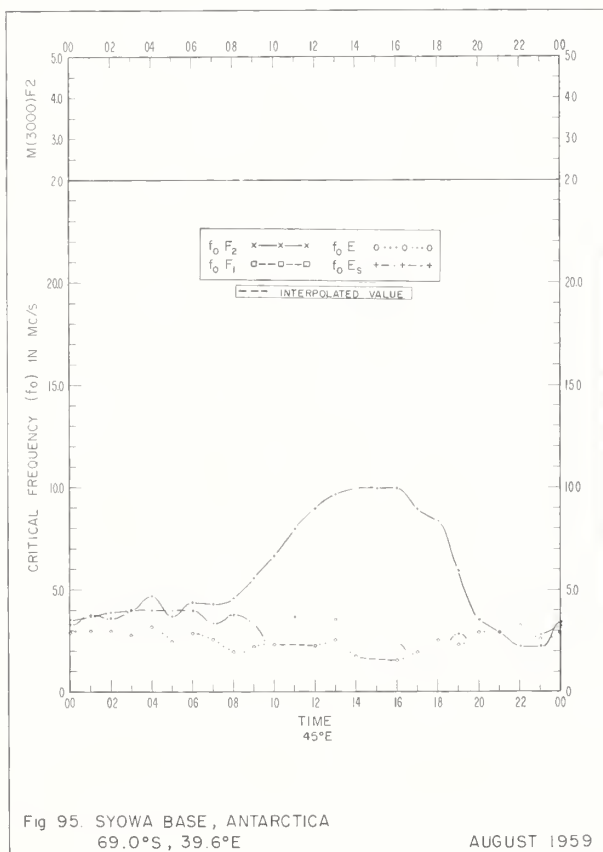
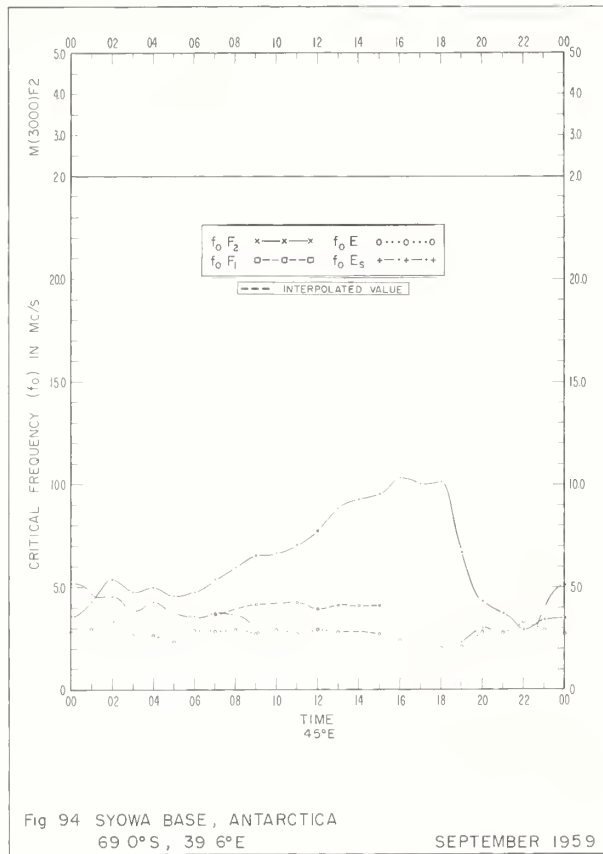
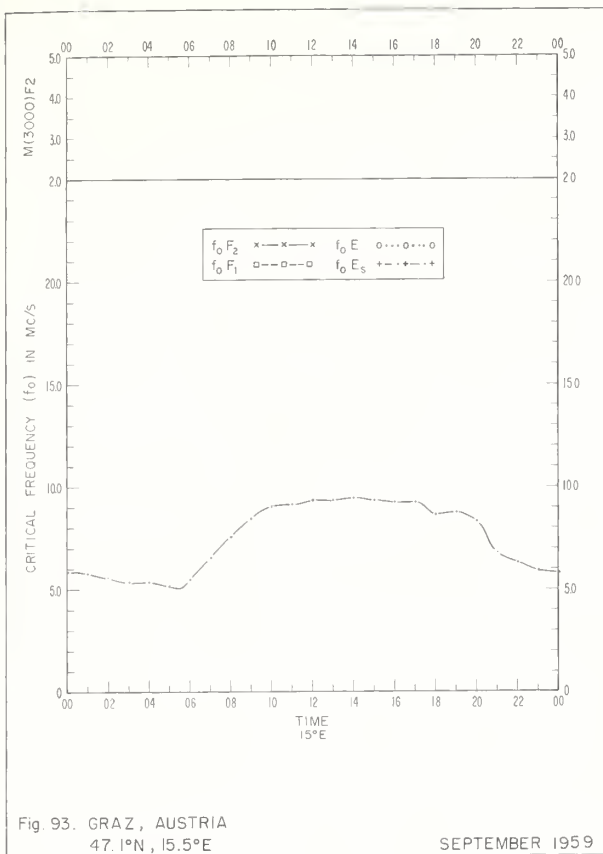
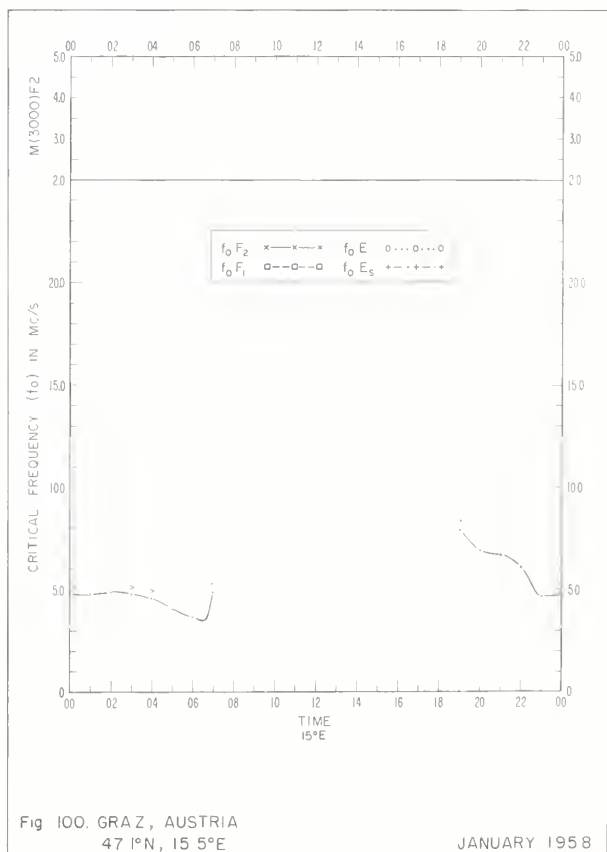
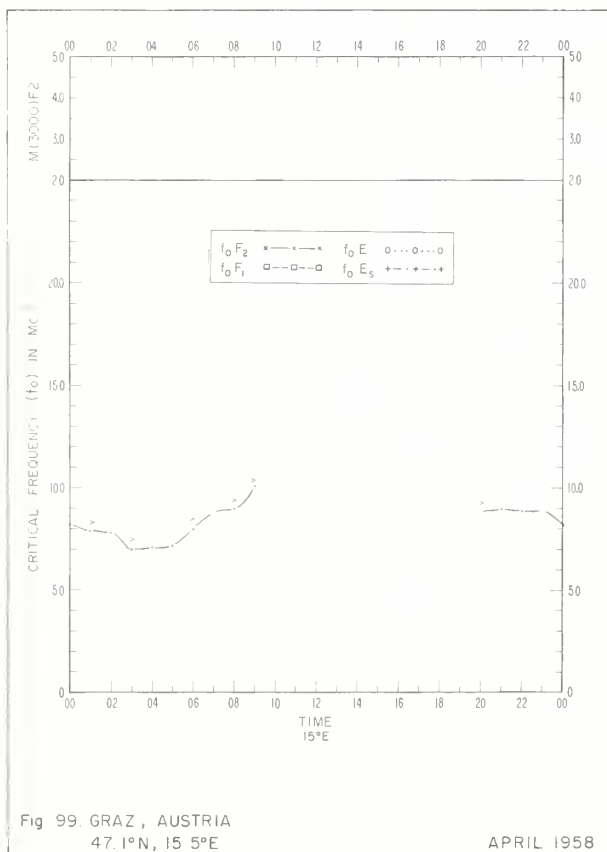
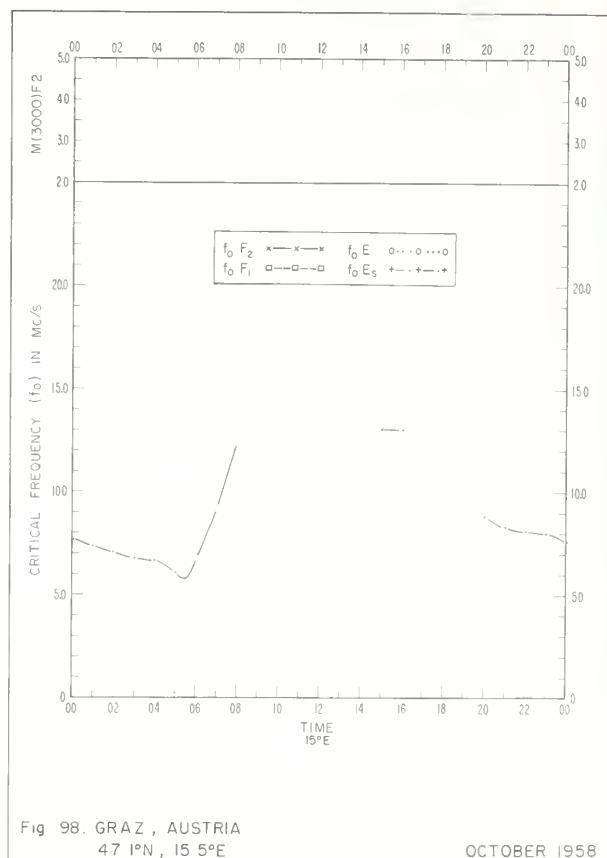
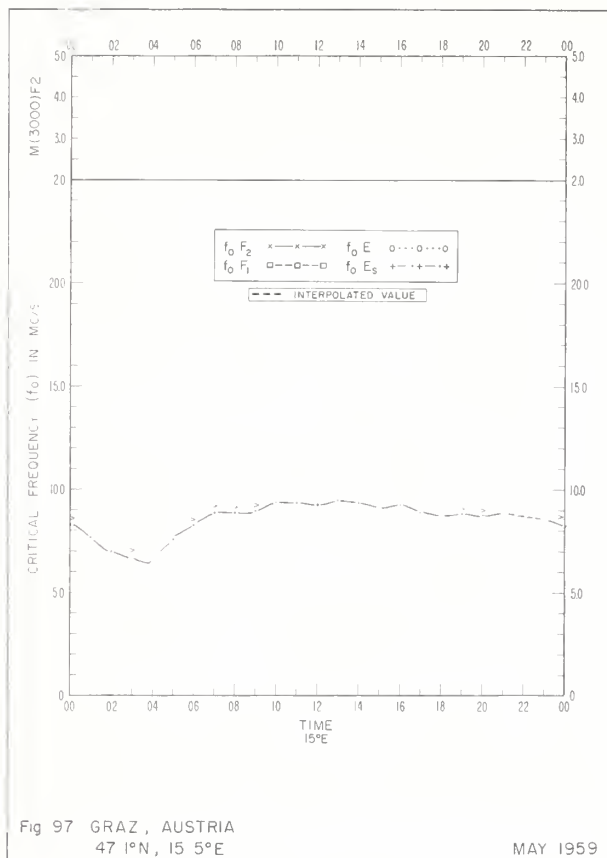


Fig 92. SYOWA BASE, ANTARCTICA  
69.0°S, 39.6°E

OCTOBER 1959





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## CRPL REPORTS

(A detailed list of CRPL publications is available from the Central Radio Propagation Laboratory on request.)

### Catalog of Data.

A catalog of records and data on file at the U.S. IGY World Data Center A for Airglow and Ionosphere, Boulder Laboratories, National Bureau of Standards, Boulder, Colorado, which includes a fee schedule to cover the cost of supplying copies, is available upon request.

CRPL-F (Part A), "Ionospheric Data."

CRPL-F (Part B), "Solar Geophysical Data."

These monthly bulletins have limited distribution and are sent, in general, only to those individuals and scientific organizations that collaborate in the exchange of ionospheric, solar, geomagnetic, or other radio propagation data of interest to the CRPL. Others may purchase copies of the same data from the U.S. IGY World Data Center A for Airglow and Ionosphere, National Bureau of Standards, Boulder, Colorado.

### "Ionospheric Predictions."

This series of publications is issued monthly, three months in advance, as an aid in determining the best sky-wave frequencies for high frequency communications over any transmission path, at any time of day for average conditions for the month.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. Price 15 cents. Annual subscription (12 issues) \$1.50 (50 cents additional for foreign mailing).

(NOTE: Tested sets of punched cards of the predicted numerical coefficients of numerical maps of the Ionospheric Predictions, for use with electronic computers, may be purchased by arrangement with the Prediction Services Section, CRPL, Boulder Laboratories, Boulder, Colorado.)

National Bureau of Standards Handbook 90, "Handbook for CRPL Ionospheric Predictions Based on Numerical Methods of Mapping." Price 40 cents.

National Bureau of Standards Circular 462, "Ionospheric Radio Propagation." Price \$1.25.

NBS Handbook 90 and NBS Circular 462 for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D. C.

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Nov 06, 2017